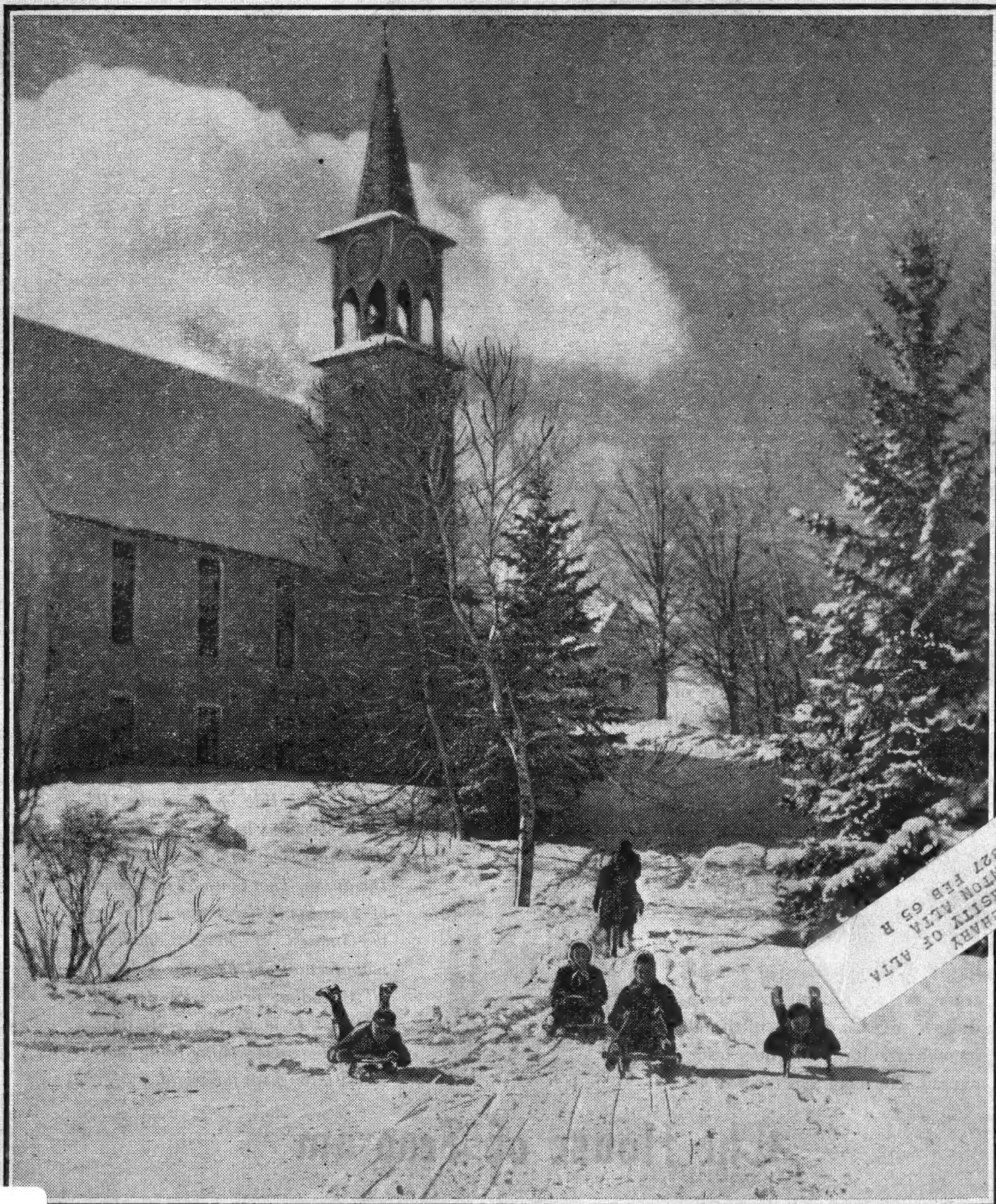


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Farm and Ranch REVIEW

February
1950



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A Dream House in the Country . . . Pages 32-33

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No chemical element is so precious as Radium—none more effective in combating many diseases. It is Canada's distinction to be one of the world's chief sources of Radium—her pride that, through it, she helps relieve the sufferings of mankind.

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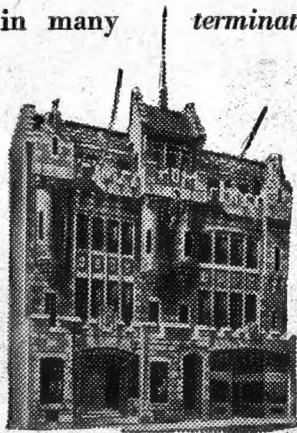
This advertisement is an adaptation of one of a series created by The House of Seagram to tell the peoples of other lands about Canada and her various products. For the past two years this campaign has been appearing in newspapers and magazines printed in many languages and circulated throughout the world.

Our prosperity is based on our ability to sell our products to other countries. Every Canadian has a personal stake in foreign trade, for one out of every three dollars of Canada's national income results from our trade abroad. The more that the peoples

of other countries know of the quality, variety and prestige of our products, the more likely they are to buy from us.

♦ ♦ ♦


We feel that the horizon of industry does not terminate at the boundary line of its plants; it has a broader horizon, a farther view—this view embraces the entire Dominion. That is why The House of Seagram believes that it is in the interest of every Canadian manufacturer to help the sale of all Canadian products in foreign markets. It is in this spirit that these advertisements are being published throughout the world.



The House of Seagram

✓ Union Tractor Shop Tips

FOR YOUR CATERPILLAR



By **JOHN KUCHERAN**
Service Co-ordinator

Getting Your Tractor Ready for Spring

One of the first things to do is to dig out your instruction book and review it carefully. If you have misplaced or lost it, just write our nearest branch for a new one, FREE.

This is the time to check your Caterpillar on the following points:

COOLING SYSTEM: — Flush, fill and check for leaks. Pay special attention to radiator core and water line gaskets.

When filling, be sure to bleed the air out of your starting motor. There is a petcock for this purpose.

LUBRICATION:—Drain, flush, and fill and lubricate all points of the tractor with the type and weight of lubricant as specified in your operators' instruction book. Do not forget such items as fuel and oil filters, engine breathers and air cleaners.

ADJUSTMENTS:—Be sure to check and adjust to specifications the following: — belts of fan, governor and electric starting motor; the master, starting motor and steering clutches; valves, brakes and tracks.

STARTING:—During the starting of the gas engine pay particular attention to the starting efficiency. Hard starting indicates lack of compression, faulty valves, poor ignition or dirty fuel.

During the starting of the large motor hard starting indicates poor compression, faulty injection pump or valves, badly carboned intake and exhaust valves, or worn valve seats.

Now is also the best time to have one of our completely equipped shops, make the necessary repairs or give your Caterpillar a complete overhaul. This will help to assure you a full Spring-to-Fall run at low operating cost, and with possibility of breakdowns reduced to a minimum.

UNION TRACTOR
AND EQUIPMENT CO. LTD.

CALGARY EDMONTON
LETHBRIDGE GRANDE PRAIRIE

Master-painted



This superb picture of hoar-frost and contrast is by Ben Weber of Sedgewick Alta. Our readers who are interested in improving their photography should study it closely. Notice how sharply the picture is in focus. Notice, too, that it was taken in bright sunlight with the sun providing back-lighting that accentuates the frost, the snow and the shadows.

THE FARM & RANCH REVIEW

GRAPHIC ARTS BLDG., CALGARY, ALTA.

Vol. XLVI

Founded in 1905 by
CHAS. W. PETERSON

No. 2

James H. Gray,
Editor

Martha Olson,
Home Editor

P. Peterson,
Advertising Manager

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Bank Director



R. D. Purdy, General Manager, Alberta Wheat Pool, who has been appointed a director by the Bank of Montreal.

\$ \$ \$ \$ \$ What Did You See?

Let's not keep the weird and wonderful and the crazy sights of this country a secret and longer. When you see something strikingly unusual, send it to the Farm and Ranch Review and we'll pay you \$1 if we can use it. Here is the sort of item we have in mind:

Entering the town of Biggar, Sask., you see a sign with the following words:

This is not New York
But it is

BIGGAR!

Sent in by J. E. Cameron, Elrose, Sask.

\$ \$ \$ \$ \$



STOPS HEADACHE FAST ASPIRIN

LOWEST PRICES

12 tablets . . .	18c
24 tablets . . .	29c
100 tablets . . .	79c

GENUINE ASPIRIN IS MARKED THIS WAY—

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ORCHARDS • ROW CROPS • WEEDS • DISINFECTING • CATTLE SPRAYING AND WHITENESS • SEND FOR FREE CATALOGUE

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Designed for Farm Homes Has **FROZEN FOOD STORAGE**

Provides ample capacity for other foods.

Powered by Dependable, Hermatic-Sealed Unit.

Engineered to Serve You for Many Years.

ELECTRIC-CRAFTS Ltd.
114-6th Ave. West, Calgary
M 1898 M 9494



Meet the master of a difficult art!

THIS man is constantly "putting himself in other people's shoes" in order to see their problems from *their* viewpoint.

Doing this is an important part of his job. And he's so expert at it that he can easily make several of these quick changes in a single day.

With a middle-aged business man, for instance, he may be discussing ways and means of adding to a retirement fund. Right from the start, he will look at the facts in terms of that man's situation.

An hour later he may be considering, as though it were his own, the problem faced by a young father with dependents who need financial protection — or any of the various problems faced by countless other people who want to make the future more secure for themselves and their families.

He is the typical modern life insurance agent—a man who is not only an understanding listener, but a trained helper, too! Only through him can you get the advice you need to make life insurance meet your own individual needs.

More than a million Canadian families have benefited by the services of the skilled life underwriter. And he's always ready to help you!

A helpful citizen in your community

When your agent sells you life insurance, he also helps to improve your community. For a large part of each life insurance dollar is put to work, through investments, to build schools, bridges, highways, industrial plants and many other projects that create jobs and make for better living. You share in these improvements, made possible through the efforts of your helpful fellow-citizen — the modern life insurance agent!



LIFE INSURANCE *Guardian of Canadian Homes*

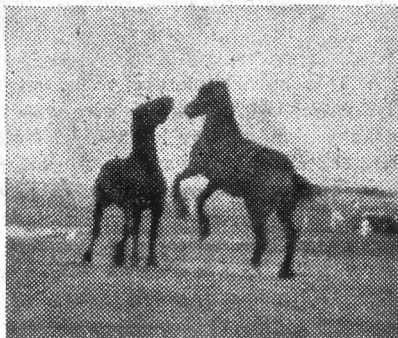
A message from the more than fifty Life Insurance Companies of Canada

LR-89

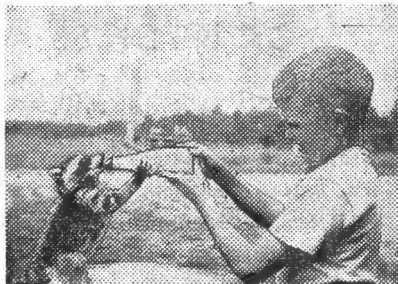
Prize Pictures from our readers



A fine head study of "Juno" by Ben Weber of Sedgewick, Alta., won him a \$3 prize.



Gladys Rubisch, Bangor, Sask., caught this action shot of a couple of farm horses in an animated argument. It won her \$3.



Here is Kenny McInnes, 675 Rankin Road, Sullivan Station, B.C., feeding his baby raccoon. Mrs. Neil McInnes sent along the picture.

New manager

MR. A. H. CARTER, General Manager, Green Cross Insecticides, announces the appointment of Mr. J. H. W. Lawrence as Sales Manager.

Mr. Lawrence, a graduate of the Ontario Agricultural College, Guelph, has been connected with the Pesticide business for the past ten years. His earlier training was under the late A. M. W. Carter, Director of Pesticide Division, Department of Agriculture, Ottawa.

"I suppose the pleasure of country life lies really in the eternally renewed evidences of the determination to live."

—V. Sackville West.

GARDEN HUCKLEBERRY

The Most Useful,
Beautiful and Popular
Garden Fruit Ever



Grown
This beautiful new fruit grows from seed first year. Unexcelled for pies and preserves. Immense crops of fruits larger than common Huckleberry or Blueberry. Cooked with apples, lemon or any sour fruit makes finest jelly. Easily grown in any soil. This grand fruit will delight you.

(Pkt 10¢) (3 pkts 25¢) (or \$1.00) postpaid.

FREE OUR BIG 1950 SEED AND NURSERY BOOK

DOMINION SEED HOUSE
GEORGETOWN, ONT.

DE-WEED (2,4-D)

64 oz. ESTER

\$7.15 per Gallon in Barrel Lots, Delivered.

Place order now. Guaranteed delivery and price.

We manufacture DIGFAST post-hole diggers.

Write for information.

RANCH & FARM SUPPLIES
906 - 9th AVE. W., CALGARY, Alta.

UNIVERSAL

Hardie Sprayers

Mounted on Skids, Trailer or Truck.

Order Now for Feb. and Mar. Delivery.

Proven by many seasons in the field the Universal Hardie High and Low Pressure Sprayer is the answer to warble fly, horn fly, louse and scores of other farm problems.

May be ordered with low-pressure manifold and 30-foot folding weed boom with low pressure nozzles for weed spraying.

Also can be used for white washing corrals, blowing out truck radiators, washing cars.

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STOCKMEN'S
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28 MICHAEL REDD, CALGARY, Alberta

Canada's Largest Annual Spring

LIVESTOCK SHOW

and

BULL SALE

AT

CALGARY, Alberta

MARCH 13 TO 17,

1950

OVER 1,200 BULLS

Entries from prominent Aberdeen-Angus, Hereford, and Shorthorn breeders indicate another high quality offering for this sale.

Fat Cattle and Baby

Beef Sale

MARCH 13th

Write for Sale Catalogue direct to
J. CHAS. YULE, Secretary

**ALBERTA LIVESTOCK
ASSOCIATIONS**

CALGARY - ALBERTA

The Farm and Ranch Editorial Page...

If this is to be "Canada's Century" it's time we de-emphasized "Security"

STRANGE, isn't it, how through the years fashions in thinking changes like fashions in clothes? Our ancient ancestors devoted much time to trying to pierce through the veil into the future. And we, who are supposed to be so much smarter, go to lengths they never thought of. Not only do we worry endlessly about the future, we devote our attention to trying to devise schemes that will take care of every possible contingency that may arise in our lifetime, and even in the lifetime of our children.

Our ancestors believed in fortune-telling, witches, ghosts, oracles, spell-casters and astrologers. We, almost all of us, believe that if we could only work it right it would be easily possible to achieve "security"; a personal and collective security that would free us forever from financial worries. In its place, there is nothing wrong with a mild interest in security. But when the illusion that there is any such thing as security comes to resemble a national delusion, it's time to step back a few paces and take some stock of the situation.

Security, of course, was a vague idea in the back of the heads of our forefathers who settled this country. But it was only in the back of their heads. This country was settled and peopled by men and women whose main concern was elsewhere; with the prospect of building a secure life for themselves out of the soil and the forests by their own strength and resources. The freedom they wanted was freedom from being hired men, from being bossed around and having their lives planned for them by somebody else.

Our frontier has largely gone. Conditions which made it possible for them to take such great risks have disappeared, or largely so. But what is important is the state of mind. And if Canada is to flourish we need that state of mind, and not one that is completely cluttered by fear of risks and with illusions of security.

In this we are not alone. In the United States, the Congress only recently set going an inquiry into the cause and effect of the disappearance of the once great supply of risk capital. We need such an inquiry even more in Canada. Our farmers are great spenders of risk capital. They have been risking their capital in great quantities in recent years buying new equipment, investing in sprinkler irrigation, setting aside part of their co-operative resources for new enterprise. But at the same time the huge sums that once went into taking risks in enterprise have disappeared.

Canadians in all walks of life pay \$450,000,000 a year into life insurance premiums. Just about everybody has an insurance policy of one kind or another. That's fine. We believe in insurance. But how many of us who have insurance policies have invested any money in any kind of productive enterprise? How many of us have any stock certificates in any Canadian companies tied in with our insurance policies?

It is all very well to complain because the Americans have come in and obtained titles to our oil resources, our forests, our iron resources and even many of our gold and copper mines. But why aren't Canadians risking their capital in the development of their own country? That is the most important question that can be asked in this country today. Yet almost no thinking is being done about it anywhere.

Can it be that our illusion of security has got us into a state of mind where we are running the country into a dead end? Certainly it extends from the ordinary citizen with a small insurance policy to the heads of our largest corporations. Again, let us take insurance as a means of illustration.

Our insurance companies now have assets of almost \$4,000,000,000. That is money that has been paid in by Canadians to buy a measure of security. That figure

has more than doubled since 1935, has increased fourfold since 1925. From this it can be seen that this predilection for security is of recent origin, certainly within the last 20 years.

At the end of December, 1946, the last figures we have available, the insurance companies had invested a total of \$3,659,300,000. The great bulk of that huge sum was invested in Government bonds and in mortgages, the so-called gilt-edged investments in which there is not supposed to be much risk. And in this huge investment, only 3.4 per cent, or \$125,000,000 was in common stock.

Insurance companies have to be conservative. They have got to think of the safety of their policy holder's premium. But how safe are the bonds of the Government of Canada unless this country grows and prospers? And how can it grow and prosper unless the development of the resources of Canada is undertaken by Canadians at the risk of their own capital? Through the years, fortunes have been lost by people who thought that they could secure their principal by investment in bonds. Europeans who tried that are paupers today. Nor is it necessary to go to Europe. Canadians who tried to achieve security by investing in provincial and municipal and corporate bonds lost much of both their income and their capital.

And even those who were lucky have discovered that fixed income investments, even when the principal is not lost, can be a snare and a delusion. People who bought annuities in 1925 with 1925 dollars are collecting today in 1950 dollars. In short, they have lost half their investment in terms of purchasing power. Thousands of people who retired before the war on what seemed comfortable nesteggs find themselves in want today. But in all the "security" propaganda that floods in upon us all so incessantly, none of this is ever mentioned.

All this, perhaps is the natural reaction of people to the stark tragedy of the 1930's. No one in Canada, regardless of political thinking or economic beliefs, has any desire ever to have a recurrence of those conditions. But surely the reaction against the 1930's should have run its course by now. If we are to fulfill Sir Wilfrid Laurier's prediction that this would be Canada's century, we've still got a country to develop. A useful start might well be made on a general agreement to de-emphasize security for there is, in plain fact, no such thing.

THERE was quite an uproar, during the late war years, over the impact of the income tax on western farmers. Yet unless something is done, and done soon, farmers will one day be loaded with a tax burden that will be much heavier to bear than anything they carried under the income tax. We refer, of course, to municipal taxes.

The municipalities, all over the Prairies, are rapidly reaching the end of their resources. As the various provincial legislatures prepare to meet, some serious thought should be given to this problem. The provincial governments are notoriously unco-operative when it comes to a joint attack on a problem. They habitually go around in little circles of their own. They behave as if none of their problems have ever arisen outside their border. Yet the fact is that all the prairie governments are driving their muni-

cipalities to the point where a whopping increase in land taxes, plus the ending of exemption of farm improvements, is the next logical step, if they are to operate at all.

And curiously enough, this rankling grievance of the municipalities is one of the oldest issues still alive. The plight of the municipalities during the 1930's was so desperate that all the provinces made it a major item in their submissions to the Rowell-Sirois commission. Unless they got some re-allocation in provincial responsibilities and taxing powers, nothing could prevent widespread municipal bankruptcy.

The Provinces got help. They got aid in

A Prairie Rowell Commission is a desperate municipal need

far more abundance than anything even contemplated by the Rowell-Sirois report. As a result of federal subsidies, the Provinces today are in superb financial shape. In face of that, the relief that has been passed along to the municipalities is picayune and niggardly.

The cost of services, particularly health and education, has risen steadily since 1937, when the municipalities were in desperate straits. The larger units must spend almost double what they used to spend protecting persons and property. The automobile has become a rich source of revenue for the

(Continued on page 6)

Farm and Ranch Editorials

provinces, and a cause of exorbitant expense to the municipalities. The Provinces extort untold millions every year from the people in liquor profits and license fees. Despite the vast change that has been made in our way of life, the municipalities are still placed in a taxation straight-jacket devised in the days when the horse was king.

Well, what's to be done? We suggest that the time is overdue for the appointment of a Prairie Rowell-Sirois commission to tackle the whole problem of provincial municipal relations. It is a general prairie problem, of equal importance to Portage la Prairie as it is to Red Deer. The hesitant, fumbling efforts that have been made by individual provinces so far are proof enough that the job cannot be done inside a provincial vacuum.

It is true, of course, that each province has taken some steps to aid the municipalities. But nothing that any province has done has any more than made up the distance that has been lost in the last decade. And when a province appoints a commission, it generally gets the kind of a report that will be at least palatable to it. What is important is not palatability but a decent standard of services for all the people of the prairies, regardless of where they live. If the Rowell-Sirois commission could set up that goal for the people of Canada, it ought to apply all over the prairies. The fact is that it does not. A municipality, fortunate enough to have the odd industry it can tax, can afford a decent school. The ones without industry can make their children do with inferior accommodation.

Eventually, the need for money will force the municipalities to impose self destroying taxes. Directly and indirectly, these taxes will weigh most heavily on our primary producers who are the ultimate consumers in this country. Yet on this fundamental question, most of the rural members of the legislature remain discreetly silent.

A Prairie Rowell-Sirois commission would largely solve this whole problem. But it would be important in another way. It would break the icy barrier that divides this country at the provincial boundaries. When the Federal government provides the occasion, there is a good deal of inter-governmental co-operation. On such things as weed control, representatives of all governments get together and thrash out common problems. But where co-operation depends on provincial generation of the energy required to get together, it doesn't exist.

The truth is that there is much that each of the provinces can learn from the others. The appointment of a Rowell-Sirois commission on provincial municipal affairs would be an important first step toward a regional approach to many of the vexing problems that beset the people of the Prairies.

The Co-op farmers deserve a square deal

THE co-operative farms in Saskatchewan deserve a good deal more in the way of encouragement than they are getting from the Income Tax Department. Because someone in the department is far too much concerned with the letter of the law, or com-

pletely oblivious of its spirit, the young war veterans who are pioneering on the co-operative farms of Saskatchewan are taking all the worst of it.

There were no co-operative farms in existence when the income tax sections that apply to co-operatives were amended in 1946. So the department has nothing specifically in the act on which to base a ruling that they are co-ops.

The farms themselves are taxed as corporations. And the farmers who operate them are taxed as wage earners. They are thus prevented from averaging their income over a five-year period as are other farmers.

It may very well be that most of these co-op farmers are C.C.F. zealots. It can hardly be denied that the co-op farm is one of the C.C.F.'s pet projects in Saskatchewan. But all this is beside the point. What is important is that the co-op farm represents the most constructive step that has yet been taken by any Prairie government to solve the vexing problem of populating our land. By the use of the co-operative technique, it has been possible for several hundred young war veterans to establish themselves on the land.

The high capital cost of land and equipment is the greatest single deterrent to young men who want to get their living from the soil. It is driving thousands of our farm boys into towns and cities to work for wages. Unless some means can be found to enable young men whose capital consists only of their strength and their character to go farming, there is disaster ahead for the West.

What do we want in the West? A vast stretch of land, eight, 10 or 15 sections, farmed by absentee owners living in Saskatoon, Edmonton or Winnipeg? Or do we want the same area farmed by 20 or 30 families living on their farms?

To us, what matters is not the political color of Governments but the efforts they make to tackle this problem. The C.C.F. Government in Saskatchewan does not normally rate our cheering approval. But it at least has done something to try to stem the tide toward corporation farming. It is surely entitled to full marks for effort.

It is surely common sense for the Dominion Income Tax Department to reverse the legalistic position it has taken and end the discrimination against the co-op farmers. If that cannot be done, then the Income Tax Act should be amended at the next session of Parliament.

Contour plowing pays rich rewards

HOW do you go about provoking, cajoling or enticing farmers to become interested in soil conservation and better farming and cultural practices? A lot of people would like to know.

Certainly there is no shortage of information being made available to farmers. In addition to all the work being done by all the Experimental farms, extension services and crop improvement districts, the machinery and oil companies have been taking a hand in educating farmers. But if these companies get no response to the money

they are spending, how can they be expected to continue a most valuable undertaking?

The Case company, to cite one example, spends thousands of dollars on advertising, booklets and film to aid soil conservation. About this, we have this comment in a letter from Mr. L. M. Torgerson, the company's branch manager at Calgary:

"We feel that not too much attention is being paid to this information by farmers, although we find that interest is growing. We would like to quote from a recent report of one of our territory men regarding Archie Anderson of Elk Point. After reading our booklet on contour plowing he started contouring his farm. He informed Mr. Boucher, our territory supervisor, that he was not only saving his soil by doing so but had increased his yield by 5 bushels to the acre.

"Similar reports come in from scattered points. It is at least encouraging to know that a very brief start is being made in soil conservation. We are sure that if all of us continue to put forth our best efforts soil conservation will begin to receive wider attention and consequently greater use."

The unfortunate fact is that for every one farmer who reads, studies and applies his new knowledge, there must be a hundred who can't be bothered even thinking about the subject. Farmers, traditionally, tend to follow example rather than precept. Perhaps if we can get a few thousand Archie Andersons setting examples around the country, soil conservation will get some place.

Memo to Donald Gordon on how to run the C.N.R.

IT'S axiomatic that any layman knows better how a newspaper should be run than its editors do. It is the same with railways. So we hardly hesitate at all in giving advice to Mr. Donald Gordon, the new president of the C.N.R. If Mr. Gordon will listen to us, we'll tell him how to cut down C.N.R. deficits.

He might begin, for example, by abolishing the whole baggage handling department. Today it is very largely a hold-over from the days when people travelled with several trunks rather than one or two bags. The handling of extra baggage could easily be undertaken in the express car.

Huge saving could be made in laundry and linen by the adoption of hard-topped tables in the dining cars. That has been done on many of the best lines in the United States.

Cut the price of upper berths by at least 50 per cent and get people sleeping in them. A lower standard berth from Calgary to Toronto costs \$18.10. The upper costs \$14.50. The slight savings is not enough to lure people out of lowers into uppers. But if the upper price is cut in half the savings will be attractive. The result will be more people riding in fewer coaches which will save wages and fuel.

Instal radios in the parlor cars to take the tedium out of the dreadful jaunt through northern Ontario. Sir Henry Thornton tried it and it didn't work. But there has been some technical advance in radio in the last 20 years.

Manitoba Home



A. K. Baird of Giroux, Man., sent us this nice shot of their farm in its winter blanket.

How big can a steer grow? Here are some British records.

CATTLE

HEAVY CATTLE

34 cwt. live weight at 10 years, "Durham Ox," killed 1807.

33 cwt. at 6 years, "Plymouth Giant" in 1931.

"Howick Mottled Ox" measured 9 ft. 6 in. long, 5 ft. 9½ in. in ht. at loin, 10 ft. 2 in. girth, 2 ft. 11 in. broad over hips.

HEAVY CALVES

158 lbs. at birth, cross-bred cow in Sussex, 1945.

PROLIFICACY

5 live calves at a birth, bred by T. G. Yarwood, Manchester, 1928.

22 calves in 11 years, 17-year-old Shorthorn owned by F. Delaney, Ross Rathdowney, Co. Leix, 1948.

17 calves in 13 years, T. Browns' British Friesian "Haslington Rika", 1949.

CALVES OF ONE SEX

Nine heifers in succession, Guernsey cow "Hampton Berberis 2nd" owned by R. E. Thornton, Seale, Nr. Farnham, 1948.

CONTINUOUS MILKING

A Jersey cow gave 18 lbs. of milk daily after 18 years continuous lactation, and a Friesian is reported from New Zealand to have been in milk for nine years after a single calving, during which time she gave 122,000 lbs. of milk with an average annual butterfat yield of over 500 lbs.

SHEEP

HEAVY LAMBS

25 lbs. at birth, bred by C. Hardwick, Bristol, 1927.

23 lbs. at birth, South Devon lamb bred by J. H. Pearse, Devon, 1933.

PROLIFICACY

6 live lambs at a birth has been reported on many occa-

sions. 7 at a birth has occurred, but one or more lambs were dead. In both 1948 and 1949 a Kerry x Suffolk ewe belonging to Miss K. Guage, Maesbury, Salop, gave birth to five lambs.

21 lambs in 5 years, ewe owned by A. Morris, Pembroke in 1927.

35 lambs in 10 years, Clun ewe owned by J. Weyman Jones, Hereford, 1933-1942.

48 lambs in 22 years, Orkney Blackface ewe in 1934.

98 lambs from 40 ewes at one lambing, owned by J. T. Suckley, Salop, 1927.

PIGS

HEAVY WEIGHT

1,410 lbs. live weight, fed by Joseph Lawton, Astbury, Cheshire, 1774. This pig measured 3 yards 8 inches long and 4 feet 8½ inches high.

1,344 lbs. at 4 years, bred by B. Rowley, Doncaster.

PROLIFICACY

26 live pigs in one litter (2 were casualties) at Monmouth, 1933. 24 in litter (Wessex sow, A. Broadway, Petersfield), 1947. 23 in litter (Essex sow, J. Butler, Stokeby Nayland, Ipswich, 12 reared), 1949.

385 pigs in 22 litters (December, 1923, to September, 1934), Large White sow owned by H. S. Peddingham. In 1930 this sow farrowed 65 pigs in 3 litters within 12 months.

HORSES

LONG LIFE

45-year-old Orkney mare, owned by R. J. Anderson, Fintray, Aberdeenshire, 1936.

58-year-old Shetland pony, W. L. Polson, Shetlands, 1944.

62-year-old horse, "Old Billy," 1932, worked at plough near Warrington before being bought by Mersey and Irwell Navigation Co.

65-year-old donkey, Stirlingshire, 1941.

Since 1946, **THOUSANDS** of growers have **HARVESTED BIGGER YIELDS** by controlling weeds with **GREEN CROSS AGRICULTURAL WEED-NO-MORE**

They have found that this **FORMULATION PENETRATES FASTER... KILLS MORE READILY... IS SAFER** to use.

**NOW in 1950
BIG NEWS
is coming about**

Green Cross^{*}
**Reg'd. trade-mark*
**AGRICULTURAL
WEED-NO-MORE**

Watch for it!

**IT WILL MEAN WEED
CONTROL AT MUCH LOWER
COST AND BIGGER PROFITS
FOR YOU!**



Sail
White Empress
FREQUENT WINTER CROSSINGS
TO *Europe*

Your dollar now buys much more in
England and on the Continent.
Plan a leisurely winter crossing on a
Canadian Pacific White Empress
and enjoy a "holiday week" at sea en
route. Both famous Empress liners
feature spacious bedrooms and
lounges . . . games, dancing, movies . . .
superb cuisine and faultless service.
Return accommodation available.
There never was a better time than
now to visit Europe.

WINTER SAILINGS

From Saint John (train to shipside) and from Halifax
one day later.

EMPRESS OF CANADA EMPRESS OF FRANCE

March 1 • March 29 February 15 • March 15
April 12

FIRST CLASS . . \$264 up TOURIST . . \$167 up

Canadian Pacific's famous shipboard
hospitality is also yours on the passenger-
carrying freighters *Beaverford* and *Beaverburn*.
Sailings approximately twice monthly,
dates on request. First-Class fare \$220.

Full information from your own travel agent or any
Canadian Pacific office.

Canadian Pacific

The French Priest who built our largest Byzantine church

By NAN SHIPLEY

LIKE a scene from the Arabian Nights the nine cupolas rise high above the cluster of little white-washed houses that dot Manitoba's grainfields just off Number One highway, and here at Cook's Creek where the population is less than three hundred, and a single business-house combines general store with gasoline filling - station, stands the largest and most pretentious Byzantine church in all Canada.

In every community where Eastern Europeans have settled, these bulbous glittering domes have become as much a part of prairie landscape as our own grain-elevators. But it is a distinct revelation to discover that more than twenty of them have been built by the same man! And all erected by ninety-five per cent voluntary labour!

The man is Father Ruh O.M.I. who like most great men is possessed of great modesty. "It is all the work of the people." With a wave of his broad work-roughened hands he brushes aside all hint of personal credit. "For many years everyone of them have pledged themselves to so many day's labour on the church.

"How did we make our start?" He repeats filling his pipe. "Building begins when the people feel a great need for a place to worship in their community and are so eager to see the church finished that they work very hard."

But a building of such proportions as St. John The Baptist church at Cook's Creek was not erected by willing labour alone; it required inspired leadership.

Phillipe Ruh was born August 6th, 1883, in Alsac-Lorraine one of ten children. His parents were well-to-do and he received an extensive education studying in France to become an architect. But the Ruh children were all imbued with true missionary zeal — three of his sisters and a

brother had gone as missionaries to Central Africa — it was natural for Phillipe to turn to the church.

Although not of Ukrainian birth Father Ruh found it easy to master the language and when he was ordained in 1910 came to Canada and began his priesthood in the bleak, and then sparsely-settled, territory of Northern Alberta.

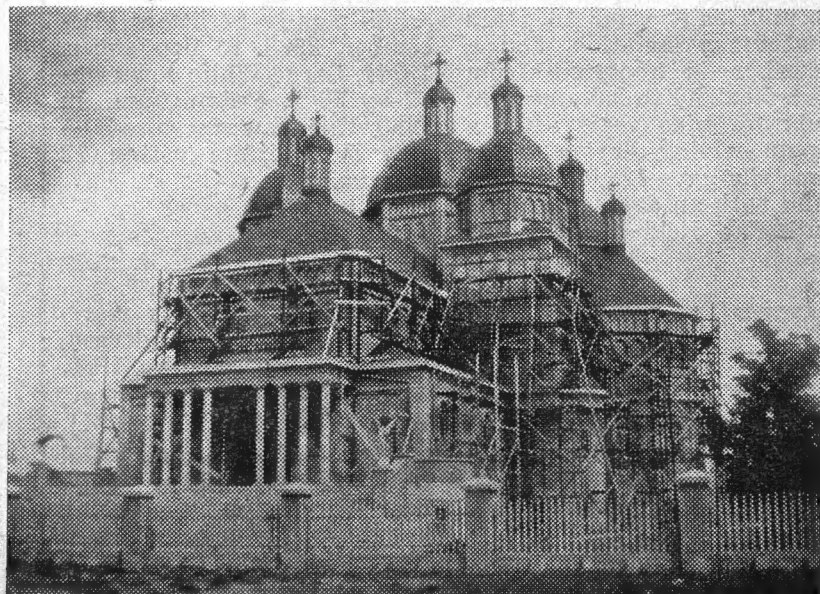
"Life there at that time was very lonely and sometimes a hardship." He recalls now. "But a wonderful training for a young man. Miles from your closest neighbor — two or three days' travel to the nearest doctor you learned quickly to become self-reliant and very resourceful."

His work took him by horse-team from cabin to cabin carrying religious instruction to the children of those early settlers, and wherever he went he received a kingly welcome. His horses were cared for and the very best that was in the house placed at his disposal. After an overnight visit he would start again across the empty land riding for more than fifty or sixty miles before he found another isolated farmhouse.

"The distance covered by my circuit-calls in the ten years I remained in Alberta would equal two trips around the world!"

Death brushed close on many occasions — perhaps closest the spring he was crossing a lake and the ice gave way under his team. Father Ruh escaped but his horses and possessions were lost.

Life's inactivity in this unpeopled land, the absence of manual or creative labour for his gifted hands, was close to torment for the energetic young priest until he discovered the settlers' desire for churches and found in the employment of his early architectural training a happy outlet. As soon as he began to build churches his



The St. John Baptist church at Cook's Creek, Man., is the largest Byzantine type church in Canada.

Guest for lunch



Mrs. Coral Henderson of Saltcoats, Sask., won \$5 for snapping this picture of a puzzled cow and an uninvited luncheon guest.

fame spread rapidly, and the copper domes appeared as if by magic at Smokey Lake, Leduc, Red Water, Edmonton and many other provincial points.

In 1919 Father Ruh was called to Cook's Creek in Manitoba as parish priest and requests for other churches and schools followed him there from as far away as Chicago where he went to assist in the erection there of St. Nicholas seminary. At Dauphin, Grimsby, Saskatoon and more recently St. Catherines near Niagara, the old-world Byzantine structures grew in the new-world landscape.

"Men are taught virtue and a love of independence, by living in the country."

—Menander.

It was not until 1938 that actual building of St. John The Baptist was started although as early as 1931 the people had the bells. It was in that year that Father Ruh returned to France to visit his old home, and wherever he went the people gathered eager to hear his story of life in Canada. When he told them that his parishioners had no bells to call them to worship the French peasants were aghast. These who had never lived beyond the voice of their beloved angelus—the morning, noon and evening call to prayer—were so deeply moved that they showered the visiting priest with thousands of francs.

Six weeks after his return to Cook's Creek three huge bells arrived. Their combined weight is more than 63,000 pounds and their present day value considerably higher than their original cost of ten thousand dollars. They hang now in a sturdy cement belfry close to the church and their chimes may be heard for fifteen miles.

The church is built of stone—hundreds of wagonloads drawn from Tyndal twelve miles away (this quarry supplied material for the province's beautiful legislative building in Winnipeg). More than one thousand yards of gravel were required for the church, tons of steel and cement, much of the latter hauled

to the highest dome by bucket-brigade because the settlers lacked cash to rent or purchase expensive mechanical machinery.

The building is forty feet high with the centre cupola extending one hundred and ten feet from the ground level, and all domes are topped with crosses. There are ninety-five windows in the church property. Two large furnaces provide heat in winter and a cooling-fan system may be operated in hot weather. The church has fifteen altars, and now that rural electrification has reached Cook's Creek the church has abandoned candlelight for which Father Ruh had such fondness. "The little flames flicker and seem like living things."

All the altar cloths and linens have been embroidered and finished with hand-made lace by the women of the community in long winter lamp-light. Paintings of the Holy Family are set in the great blue-domed ceiling after the fashion of ancient European cathedrals and the whole interior richly decorated with walls and pillars hand-painted to simulate glowing green and red marble effects.

There is not an inhabitant of the community that has not kneaded a part of himself into the very fabric of this church, and a whole generation of young people have grown up with the knowledge that the church is the centre of their very existence. Here they have met to paint, to polish, to sew and to prepare meals for workers and to raise funds for expensive materials, and through it all learned the unforgettable lessons taught by communal effort.

As many as a hundred men and women have worked daily on the church particularly in the early stages when the basement was being excavated, cement mixed, floors laid and walls plastered and painted. In the beginning Father Ruh had to teach the farmers by example the craft of carpentry and masonry and whenever intricate work was to be done on the highest scaffold he unhesitatingly climbed the flimsy structure.

BUILDING TIPS for farm and ranch

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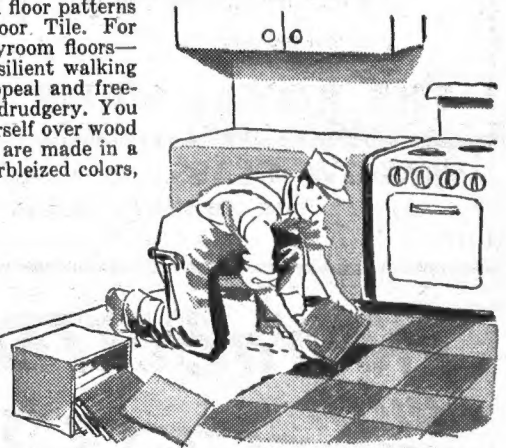
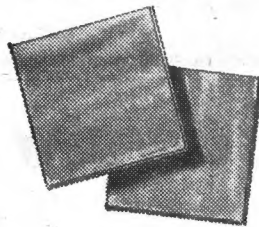
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By KATHERINE HOWARD

ACCORDING to one encyclopedia, a horse is, "A hoofed mammal once very necessary to man, now superseded largely, even on farms, by tractors and automobiles." Thus the calm assumption that the horse, the friend of man, is to be pushed aside, his period of usefulness over, his day done.

But let one of those glittering, ultra-modern, stream-lined automobiles plunge over the edge of a country road, and settle with the gleaming top of its radiator wedged firmly into the far side of the snow-packed ditch, and what happens?

The driver of the car, after vainly endeavoring to move his \$3,000, hundred and fifty horse-

drifts and piles, and making roads impassable. Until the roaring engines of the snow-plows cut through the drifted snow and push it back from highways, the cars, those polished products of man's ingenuity and mechanical skill, must stay in the garages, and "Old Faithful," has to plod, "Once more unto the breach."

The same thing happens in the spring! Mud-holes and soft roads, with deep, water-filled ruts, make travelling with a car impossible. Then, in from the pasture, where he is pawing energetically at the spongy earth, hunting the elusive stalks of fresh, green grass, comes our friend the horse, again exhibit-



Who says the horse is obsolete? It took 20 teams to skid this big farm house across the country. Mrs. Brian Payne of Beacon Hill won \$5 for sending us this picture.

power, gasoline-driven leviathan, gives up in disgust, and like King Richard the Third, runs around frantically searching for a horse, a real, live horse, not a unit of strength.

A tractor won't do! The road is too icy and slippery for the necessary traction to get the car back onto the crown. Then good old Dobbin is hurriedly led from his hay and oats and retirement, the seldom-used harness is adjusted, the traces fastened to the rear of the automobile, and without any puffing or groaning, he leans into action.

Apparently without effort, he hauls out that inert hunk of steel and iron, rubber and chromium, then looks contemptuously around, as if to say, "For heaven's sake remove this useless object, and take me back to my dinner."

Grey skies come, and blizzards, and bitter winter winds, whipping the fallen snow into

ing his ability to assist.

But it is the Fall, when the value and use of the horse is most apparent, when his capacity for service to the farmer, most evident. Those wonderful examples of modern, mechanized farm machinery, the combines, are found in increasingly large numbers in rural districts, but at harvest time, the threshing machine still whirrs and pulsates on thousands of farms, and where the "Separator sets," there the horse comes into his own again.

How he responds to the voice of the teamster, slowly moving forward and waiting, with keen understanding, as the rustling sheaves are piled high on the cumbersome racks; how he picks his way among the aisles of golden stooks, and how adept he is, through long experience and familiarity with the procedure, how reliable!

The driver swings himself up onto the fragrant load. The

Fruit to grow in Alberta

TREE fruits and the small fruits, with the exception of strawberries and raspberries, at present are not of commercial importance. Many varieties of these, however, are of great value to the home gardener both as ornamentals and for their fruit. Discounting late spring frosts most recommended varieties of tree fruits, such as apples and crabapples, may be expected to yield quite well.

Here is a list of fruit varieties which may be grown satisfactorily under southern Alberta conditions. The varieties listed below have been tested at the Dominion Experimental Station, Lethbridge and at other points, and have been found to be hardy and of good quality. The apples and crabapples listed are resistant to the ravages of fire blight.

Crabapples — Beauty, Columbia, Dolgo, Garnet.

Apple-Crabapple Hybrid — Trail.

Apples — Haralson, Moscow Pear, Heyer No. 12.

Cherries — Manchu, Nanking Cherry and other selections of *Prunus tomentosa*.

Pears — Brooks No. 18, Pioneer No. 3.

Raspberries — Latham, Newburgh, Madawaska, Viking.

Red Currants — Fay, Red Lake, Red Cross.

White Currants — White Grape.

Black Currants — Black Naples, Lee's Prolific, Boskoop Giant, Magnus.

Plums — Assiniboine, Grenville, Ojibwa, Tecumseh, Dandy, Mina, Pembina.

Sandcherry x Plum Hybrids — Algoma, Manor, Sapa, Dura, Opata.

Sandcherry — Brooks, Sioux, Manmoor.

Gooseberries — Abundance, Pixwell.

Strawberries (June bearing) — British Sovereign, Premier, Dunlop.

Strawberries (Ever bearing) — Gem, Mastadon.

In addition to those listed above there are numerous varieties being tested which may later prove to be desirable.

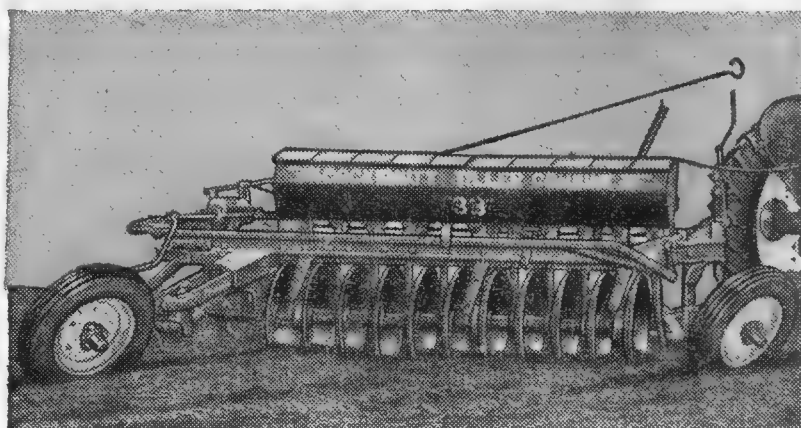
Anyone interested in growing fruits would find it helpful to obtain a copy of the bulletin entitled "Recommended Horticultural Varieties and Zonation Map for Alberta." This bulletin may be obtained by writing to your District Agriculturist, or the Provincial Department of Agriculture, Edmonton, Alberta, or the Dominion Experimental Station, Lethbridge, Alberta.

(Continued from page 10)

long, hard pull towards the behemoth of iron and steel and relentless tearing teeth, begins. How patiently, and with what quiet disdain, the horses stand, calm in their knowledge of the significance of the job, the necessity for their good behavior.

CULTIVATE, SEED AND PACK IN ONE OPERATION WITH THE COCKSHUTT TILLER COMBINE

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"33" Tiller Combine

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"35" Tiller Combine

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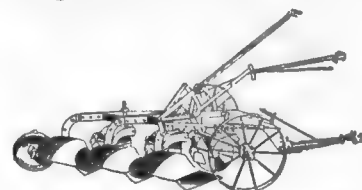
You'll appreciate the ease and convenience of the "35" depth control. It works right from the tractor seat and the twin-ratchet assembly gives you a far finer adjustment than you'd ever find on an ordinary lever and ratchet system.

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"8B" Tractor Plow

ground up to do better work behind modern tractors. The chief reason for the famous light draft of these plows lies in the Cockshutt "Speed" bottoms. Ordinary bottoms, plowing at more than



"24A" Tractor Plow

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"4A" Tractor Plow

it's fast, low cost plowing you want, see the Cockshutt "Speed" plows at your Cockshutt dealer's. Compare them with anything else on the market and you, too, will agree they're the best buy by far.



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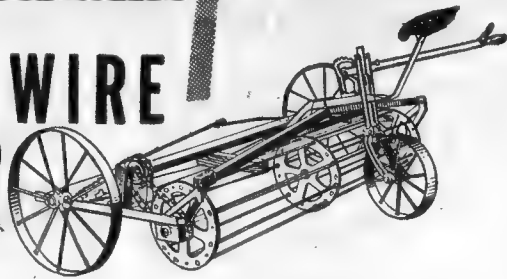
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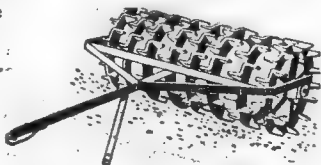


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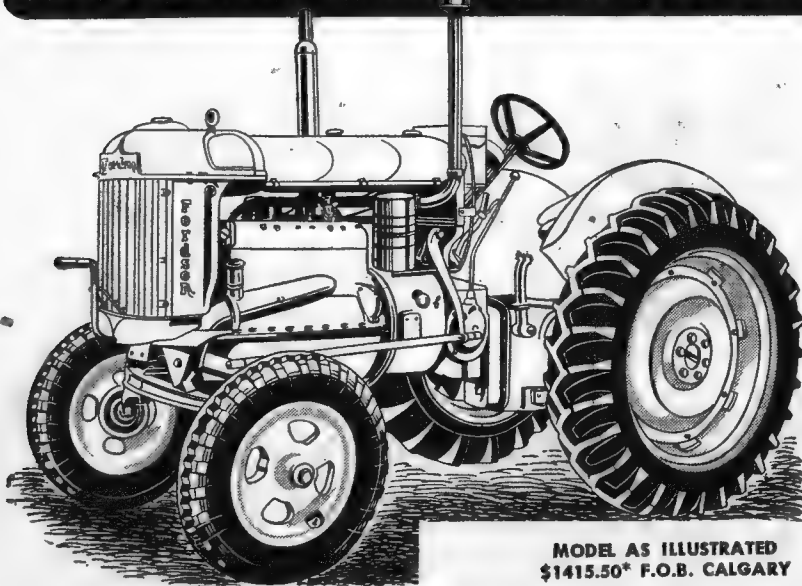
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Progress report on the Matador co-operative farm

By LORNE DIETRICK

WE have just completed our fourth year as members of the Matador Co-operative Farm and it looks as though we will be spending many more years here.

In the spring of 1946 we had only two things in common. The first that we were veterans, the second that we were interested enough in co-operative farming to make enquiries about it and to attend a co-operative farming conference for veterans held in Regina early in April. By the first of May the seventeen veterans who had decided to tackle organizing and developing the Matador Co-operative Farm had arrived at the site.

We were to settle an area of heavy clay land in the Matador community pasture. None of the land was under cultivation and there were no buildings. With a loan from the Saskatchewan Reconstruction Corporation, we purchased second-hand equipment and started breaking land. We also purchased an airport building forty-five miles to the south across the Saskatchewan river and proceeded to saw it into sections which were moved to the Matador to solve our immediate housing problem.

We have 480 acres per veteran, plus about 1,200 acres to be used for the building site, pasture and irrigation. Our land is held on a 33-year renewable lease with the option of purchase at the end of ten years. We have received our grant of \$2,320.00 each from the Veterans' Land Act.

Two new members joined the co-operative in 1947 and another has just been accepted to bring the membership to eighteen. There are forty-seven people living on the farm including eighteen men, twelve women and fifteen children, four of whom are going to school.

During the past summer we completed breaking the arable land. We have brought 8,250 acres under cultivation since the spring of 1946. Of this 2,600 acres were broken the first year, 1,700 during 1947, 950 during 1948 and 3,000 acres were broken this year.

When we organized, four of the members were married. Consequently from the airport building, we constructed four houses 30 x 30 and a dormitory 30 x 45 to house the single men. Three more houses were built in 1947, three in 1948 and another three this year. The houses are constructed and owned by the co-operative farm, but are designed by the families who will live in them, subject to minimum specifications. The last nine houses have full-sized cement basements and those constructed this year are wired for electricity.

Our houses are located in a semi circle around a community

park and playground. On the outside of the circle are the farm buildings which include a machine shop, seven-bay garage, six granaries with a capacity of 18,000 bushels, chicken house, barn, hog pen, milk house and ice-house.

The depreciated value of our farm equipment is approximately \$31,100.00. This represents an investment of \$1,727.78 per member and an investment of \$3.77 per cultivated acre. These figures should be compared with the investment in equipment of an individual farming 480 acres of land. In addition, we have four 3-ton trucks, one 1/2-ton truck, one panel 1/2-ton truck and two jeeps. Most of the vehicles are war assets equipment obtained during our first two years.

One Good Crop

While progressing very satisfactorily in the way of becoming comfortably accommodated, properly equipped and getting all our land under cultivation, our crops have varied considerably, with only one good crop in the past four years. Our first crop in 1946 consisted of only 300 acres of flax on raw breaking, which produced enough seed for the following year's enlarged acreage. Our second crop in 1947 was almost entirely destroyed by hail, while the 1948 crop yielded approximately 15,000 bushels of flax and 45,000 bushels of wheat. This year, after a very dry summer we are harvesting only enough wheat and flax for the 6,000 acres to be seeded next year.

In addition to the economic aspects, a pleasant social life is enjoyed on the Matador Co-operative Farm. The dormitory is now used as a recreation hall in which we hold meetings, card parties and dances. We have a baseball team which has played many games throughout this part of the Province with varied success as far as runs are concerned, but with great success as far as providing enjoyment to the members of the farm. We are planning to flood a skating rink this winter.

Our co-operative has a board of six directors, a chairman and a secretary. Each director is in charge of a special field of activities on the farm including field work, livestock, horticulture, the machine shop, construction and education. Meetings of the members are held each week and at these meetings all farm problems and policies are discussed and worked out. We have found since early in 1946 that our ability to discuss problems and work out solutions to them on a democratic basis, has improved considerably and we feel confident that we will be able to solve any membership problems encountered in the future.

Sask. faces worst hopper threat unless drastic action is taken

REGINA—Saskatchewan farmers are in for one of the worst grasshopper outbreaks in the history of the province in 1950, and crops may be completely destroyed in some districts unless adequate control measures are taken this spring.

A survey of grasshopper eggs, conducted in the province last fall by the Dominion entomological laboratory at Saskatoon, indicates that 204 rural municipalities and local improvement districts will be affected and approximately 150 of these will require well-organized control programs to prevent serious grasshopper damage to crops, Hon. I. C. Nolle, Minister of Agriculture, said.

In general, the survey shows that egg infestations in the province are more numerous and widespread than for several

field infestations are extremely heavy.

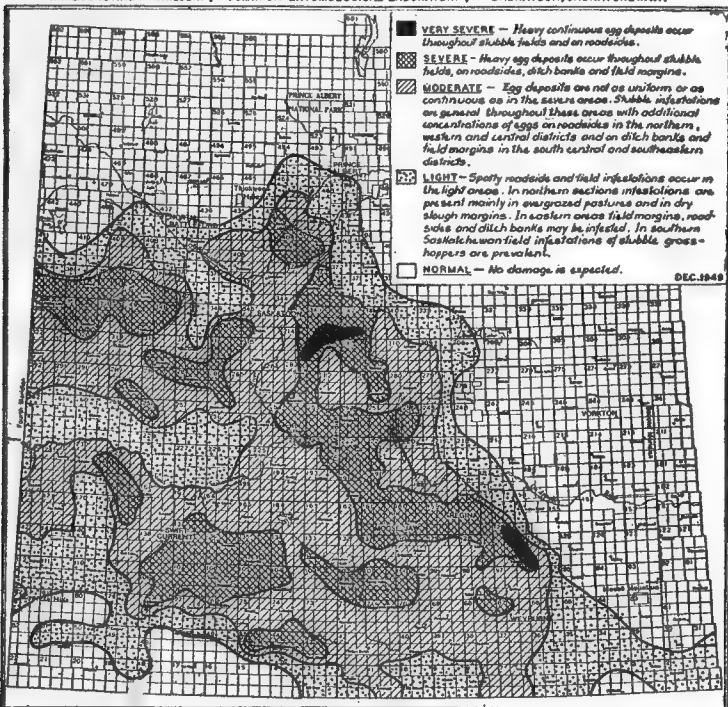
Grasshoppers are also expected to be numerous in west central Saskatchewan where egg concentrations on roadsides occur in varying degrees of severity—and field infestations are light to moderate. Highest concentrations are found in the Kerrobert-Reward district, around Herschel-Rosetown-DeLisle and in the Plato-Brock district.

In the southern part of the province populations of stubble grasshoppers have increased considerably from last year. Worst outbreaks are expected in the Abbey-Cabri-Hazlet region, south and east of Swift Current in the Wood Mountain-Mankota district and in the Coderre-Mossbank-Crane Valley area.

In the southeast, where the

SASKATCHEWAN GRASSHOPPER FORECAST 1950

ILL. MOORE AND P. W. RIEGERT, DOMINION ENTOMOLOGICAL LABORATORY, SASKATOON, SASKATCHEWAN.



years. They cover practically all of the agricultural area south of North Battleford and Prince Albert and west of a line through Watson, Wynyard, Indian Head, Arcola, and Carn-duff, according to the 1950 forecast map based on the egg survey.

Heaviest egg infestations were found in central Saskatchewan extending from the Blaine Lake-Rosthern area down the east side of the South Saskatchewan river through Saskatoon, Colonsay, Elbow, Davidson, Moose Jaw and Regina to the Francis area. In these districts severe concentrations of stubble grasshopper eggs occur throughout stubble fields and egg deposits on roadsides, field margins, pastures and dry sloughs add to the hazard.

Forecast Severe

Most of this central region has been forecast as severe, with two patches of very severe infestation mapped in the Dundurn-Colonsay and Odessa districts, where both roadside and

infestation is much heavier than last year, general concentrations of fields and roadsides indicate a severe outbreak in the Weyburn-Yellow Grass area.

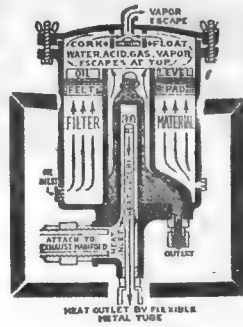
Individual action by a farmer can save a large percentage of his crop but a concerted campaign by all the farmers in a district is necessary to prevent grasshopper damage completely, Mr. Nolle said.

Greatest weakness of the campaign last year was in not following recommended cultural practices. This, said Mr. Nolle, resulted in far too much damage being caused by stubble grasshoppers and allowed a serious increase in this dangerous species.

"There is virtue in country houses, in gardens and orchards, in fields, streams, and groves, in rustic recreations and plain manners, that neither cities nor universities enjoy."

—Bronson Alcott.

RECLAIMO



RECLAIMO

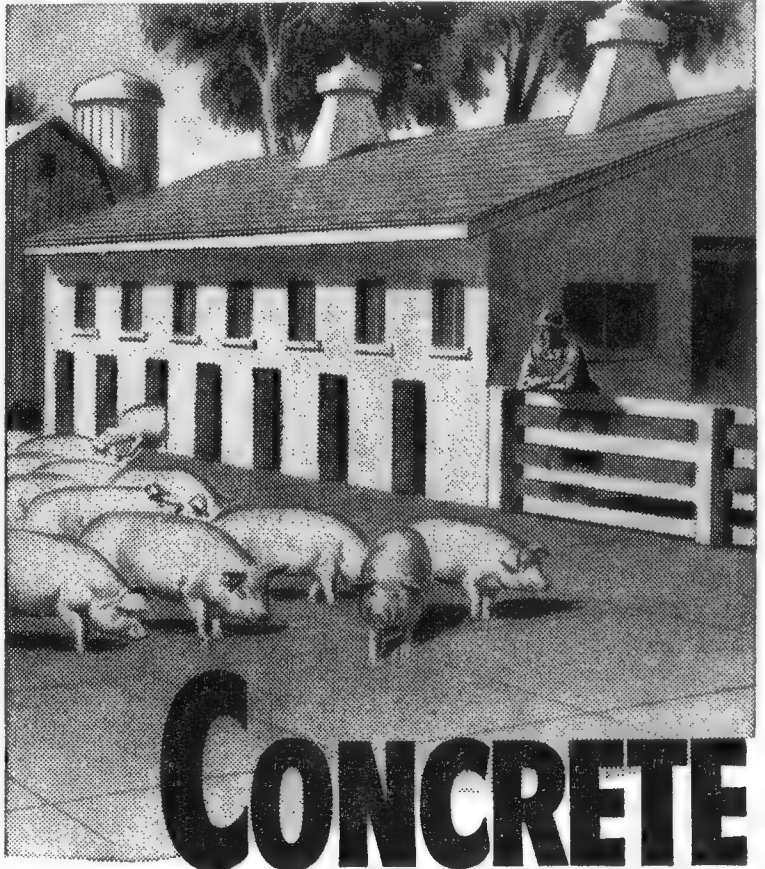
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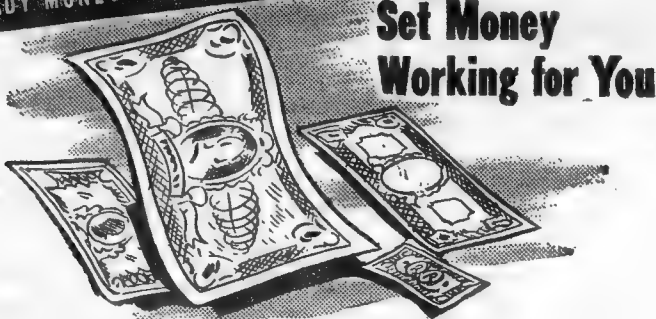
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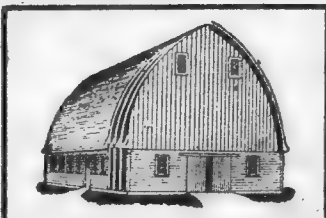
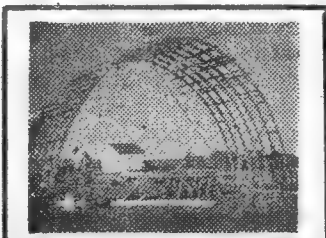
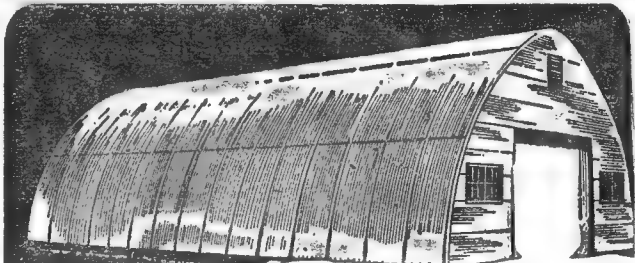
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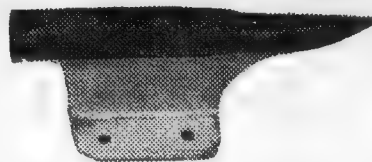
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Tips on Welding

By J. W. de BOER



THIS picture shows how easy it is to make a small anvil from an old piece of rail, when a cutting torch is available. This particular anvil was made from an old piece of 90-lb. rail. It is very handy for a small work-bench and for light work.

Have you ever wished that you had a Christmas-tree stand that could be used year after year. This sketch shows how easily it can be made. A short length of pipe, size depending on size of tree you use, 3 pieces of round iron bar, a few minutes of your time and you have a stand that will never wear out. A can with water placed under it with the tree touching the water will keep the needles from falling off. This stand can be made adjustable for different size trees by drilling 6 holes, 3 in the top part of the pipe and 3 in the bottom, weld a nut over these holes and by using setscrews the tree can be held solid even if a lot smaller than the pipe.

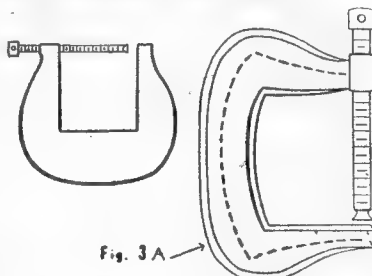
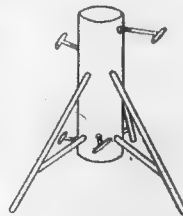


Fig. 3A

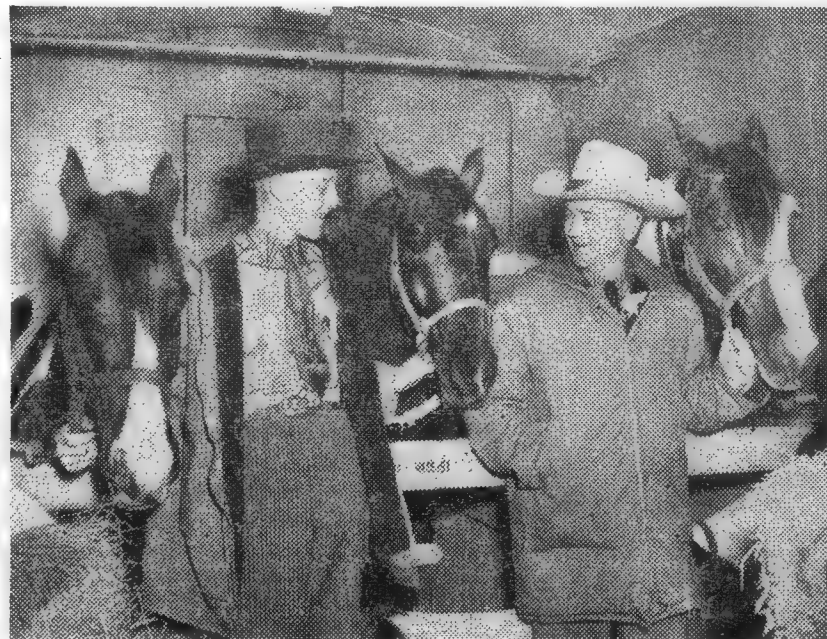
When repairing equipment, a C clamp is often needed and not always available. Take 2 pieces of 3/16" or 1/4" plate and cut to the desired shape of the clamp by means of the cutting torch. Next, take a piece of band iron and weld this to both plates on a spacer. Fig. 3A. Now take another strip of band iron, bend and weld around the outside and inside of the C. Use a good-sized bolt and nut and have this bolt threaded as far as necessary for the clamp. It is best to provide the bolt with a swivel nut. Weld a piece of round iron on the head of the bolt and weld the nut to the C to complete the clamp.

Palace cars for horses

WINNIPEG — First put into service early this year the C.P.R.'s two horse express cars on western lines have been busy handling race horses, thoroughbred saddle horses imported from the other side and such special events as the Calgary

ride better than a passenger car".

Race horse shipments have included one from Vancouver to Winnipeg, two from Calgary to Winnipeg, three from Toronto to Calgary and one from Toronto to Vancouver.



W. J. Herron, right, of Calgary with his son and three prize Pintos in one of the new Canadian Pacific Railway palace cars for horses.

Stampede parade horses.

The eighty-foot cars have room for eighteen horses and six attendants. One of the new horse palaces was in the train carrying 12 steeds for the Grey Cup final parade in Toronto.

Horsemen are enthusiastic about the new cars. There is more room in the centre because of the stall arrangement and to quote one of them "they

Those who shipped through here in November included Joe Johansen, well-known Calgary horseman, on his way to winter quarters after campaigning at Toronto tracks.

The cars carry grain and hay for the horses and there is always room for the varied assortment of dogs, goats and other stall walkers.

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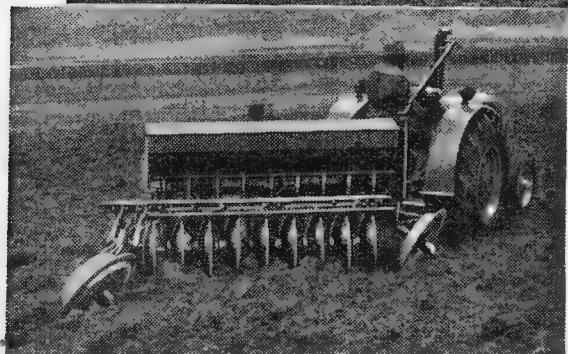
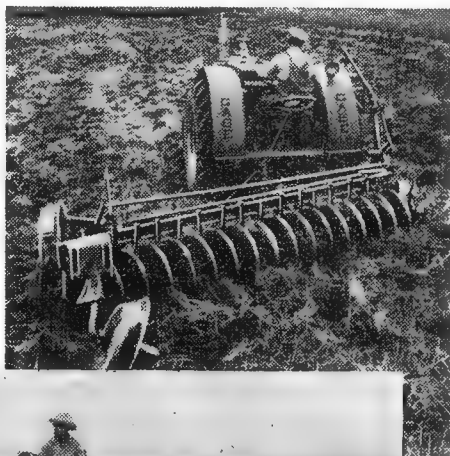
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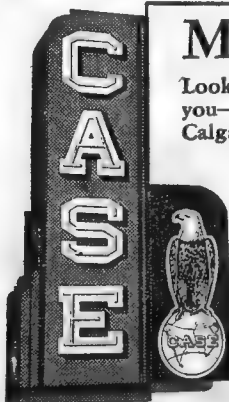


On smaller farms the Model "D" 3-plow Case tractor furnishes eager power, good lugging ability, easy handling, consistent economy of fuel and upkeep. Here, with 6-foot Case one-way and seeding attachment, it reclaims sod-bound land.

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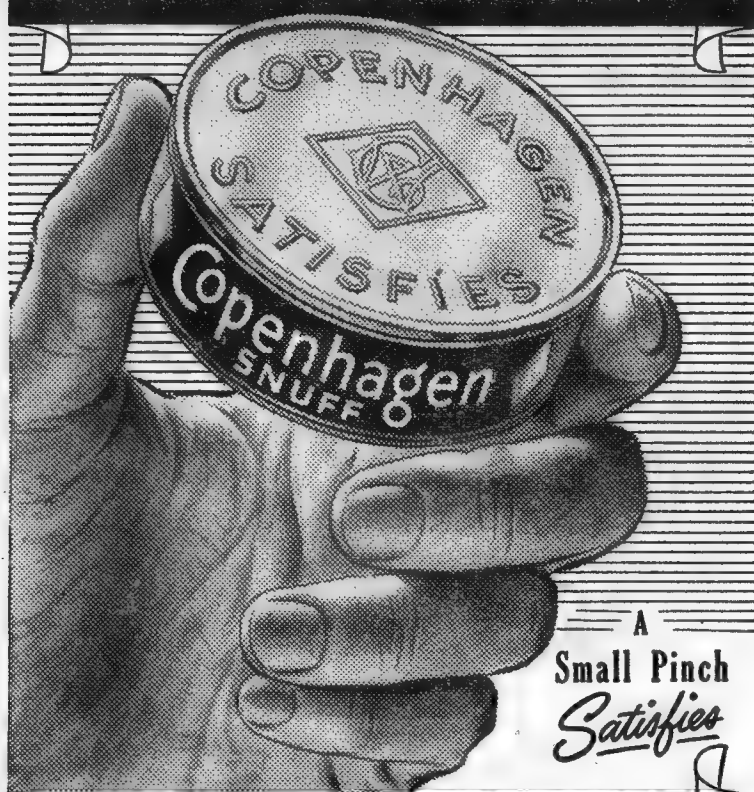
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How to grow early vegetable crops so eagerly awaited

By H. F. HARP

GARDENING these days must of necessity take the form of reading gardening books and studying the new seed catalogues. Of course if you have a greenhouse or conservatory you can spend a pleasant hour studying live plants.

Nursery and seed catalogues are certainly intriguing with their highly coloured pictures of luscious fruits, gorgeous flowers, and vitamin packed vegetables. It passes a pleasant evening studying them and making out the seed order. You will avoid disappointment in ordering early while stocks are complete.

Early Vegetables

Everyone looks forward to the first fruits of the garden, especially the salad plants and tomatoes. There's added interest and enjoyment in producing these early vegetable crops from indoor seeded plants. If you are prepared to devote a little window space to the seed pots, and later on to the boxes of transplanted seedlings, you can look forward to the luxury of early lettuce, green onions, cabbage, tomatoes, etc.

There are three important steps in successfully cultivating these early vegetable crops, namely, selection of the proper varieties; sowing the seed at the right time, and the careful and intelligent attention to the plants' requirements.

Preparation of the soil and seed pots

Experienced gardeners will have placed a quantity of soil, rotted manure, peat and sand under cover last autumn for use as compost for seed sowing. Flower pots and a quantity of coarse gravel — (for drainage) will have also been reserved. If this has not been done there is still plenty of time to get these materials, either by purchase of ready mixed soil from greenhouse man or florist store, or by bringing indoors a few clods of frozen soil and thawing them out on the basement

floor. A little sand and peat may be purchased and a few flower pots if needed. A suitable mixture for seed sowing is three parts of soil, one part each of peat and sand. Well rotted barnyard manure may be substituted for the peat providing it is sufficiently decomposed. It should be like leaf soil in texture.

The soil when mixed with the sand and peat should be put through a quarter inch sieve, and the rougher portions put to one side for use as drainage.

Frozen soil takes about ten days to two weeks to become suitable for use and on no account should any attempt be made to use it till it has become thoroughly warmed up and bacteria action has made available a sufficiency of nitrogen for the plant's use.

The most frequent causes of failure with indoor vegetable seedlings are:- Sowing the seeds too early; 'Damping off' and setting the plants out in their permanent quarters before they are properly hardened! Tomatoes are often subject to abuse when started too early. Some impatient gardeners start them in February which is much too early. The result is usually a tall wiry plant with a hard stem, yellowish leaves and a starved look.

The ideal plant is one not more than eight inches high, dark green, thick stemmed, and having the first flower-truss visible, but not fully developed. To obtain such plants the seed should not be sown till March 25 or thereabouts. If greenhouse facilities are available sowing is better delayed a week.

'Damping off'

The organisms responsible for this disease is present in most soils and when conditions are right for their growth they quickly destroy whole pots of seedlings. Cabbage, cauliflower and celery, are particularly susceptible vegetables; Petunias, Snapdragons and Salvias

(Continued on page 17)

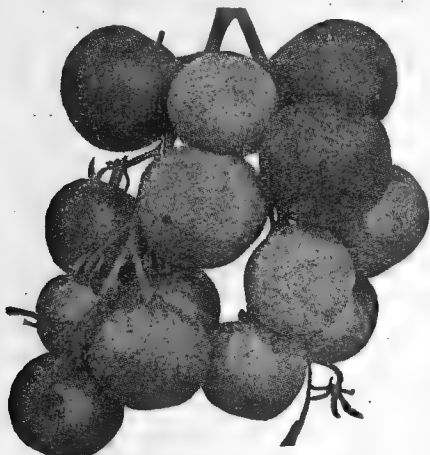
Winter Catch



Mrs. Brian Payne, Beacon Hill, Sask., took this picture of her son, Douglas, left, with Lee Barton and Arnold Foss and the big ones that didn't get away.



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(Continued from page 16)

are easy victims in the flower line.

The trouble usually starts when the plants are making their first character leaves, and is manifested by the 'water-soaked' appearance of the seedlings, quickly followed by the complete collapse of the tiny plant. Careless watering, low night temperatures, and exposure of the seed pots to draughts will greatly aggravate the disease. Sterilization of the seed pots and soil is one sure way of lessening the chances of trouble from 'damping off'.

Prepared seed pots may be baked for an hour in a very hot oven or better still, steam sterilized for a half hour period. Either method provides a satisfactory means of sterilizing especially if 'Semesan' or 'Arasan' is used for treating the seed prior to sowing. These preparations will be found advertised in seed catalogues.

Four-inch flower pots are large enough for seed sowing and they should be scrubbed clean and allowed to dry before being used. New pots will need to be soaked in soft water for a period of twelve hours or so.

Drainage

Drainage is most important—a piece of broken flower pot should be placed over the hole in the pot (concave side down). Over this place about two inches of coarse gravel or cinders. The rough portions of soil are then laid on top of the gravel to a depth of an inch and the pot is filled to the brim with the fine soil. When gently pressed down it should stand level at half an inch below the rim of the pot.

Set the pots in a bowl of water covering them to not more than half their depth. When saturated by means of percolation they must be taken out and allowed to drain for an hour before sowing.

Even sowing

The seed must be evenly and carefully distributed and most important — very thinly. Most people sow seeds much too thickly. The covering of soil will depend on the size of the seed. As a general rule cover to twice their diameter. Tomatoes and cabbage may be covered slightly deeper. Press the soil down gently and make level by means of a tin lid of suitable size. Not more than fifty seeds should be planted to a four-inch pot of these larger seeded vegetables, and even less where only a few plants are needed. Remember the thinner the sowing the sturdier the plants will be.

A sunny window sill will suit the seed pots well and if they have been properly prepared and well soaked before seeding they should not require water till seed germinates. A piece of glass and a newspaper covering is placed on each pot to conserve the moisture.

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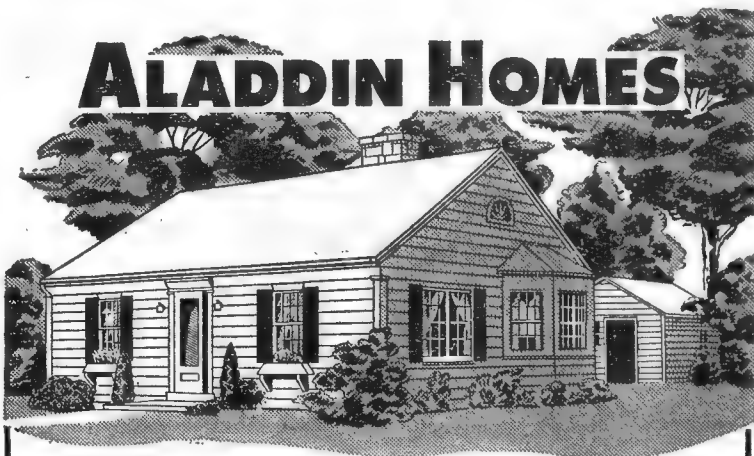
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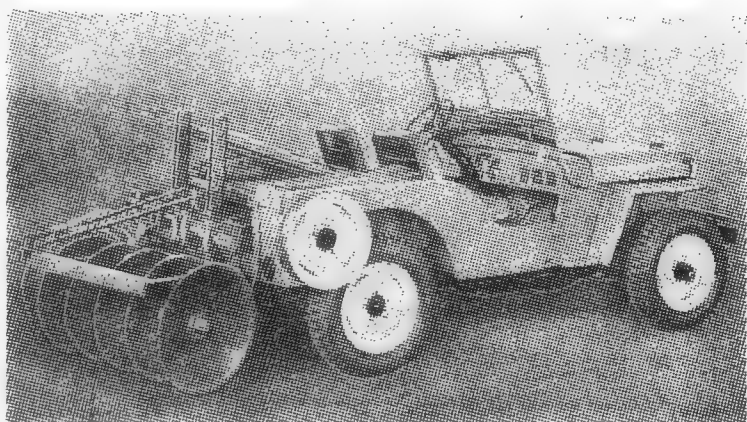


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The small wild squeakers are ferocious and always hungry

By KERRY WOOD

AMONG the smaller snow-tracks seen at this time of year in Western woodlands and fields are the foot-prints of Red-backed Voles in the forest belt, Drummond's Voles and others of the numerous field-mouse tribe, the dainty tracks of the attractive White-footed Mice or Deer-mice, once in a rare while the long-spaced tracks of Zapus, the Jumping Mouse which usually hibernates but sometimes comes abroad for a brief look-around on the mildest days of winter, while here and there on snows of both field and forest we find the busy tracks of the Common Shrew.

Considering the wide-spread abundance of shrews, it is amazing that most of us seldom see these smallest of carnivores. The Common Shrew measures four inches in total length, counting in an inch and a half of tail. They are long snouted little creatures with tiny, hidden eyes, and small ears worn close to the head and concealed by the fuzzy fur. In color, shrews are ashy-browns or slate-sepia.

These slender-bodied, quick-moving hunters sport a lot of nick-names: Shrew-mice, Cooper-shrews, Masked-shrews, and some call both this type and the related short-tailed shrews by the name of Mole-mice. Our Common Shrew is the long-tailed member of the family; here in Western Canada we get the species-type of Sorex personat-

us and also the larger Richardson's Sorex of the prairie country. We also have a scattered population of Pygmy Shrews, whose body measurements are around two inches in length... a diminutive bundle of ferocious animal life.

Shrews are hunting animals, true carnivores that thrive on flesh. This food may be carrion, animal flesh or fledgling birds, and they eat a great assortment of insects, notably beetles, grasshoppers, moths, bees, and butterflies. I remember being startled while sitting on a mossy log one day, when a shrew charged out from between my feet and flung itself savagely upon a fritillary butterfly that had alighted on a flower-head nearby.

Another time, near my home we had an old table as an outdoor work-bench, and underneath the table top there was a patch of bare ground one winter season. I saw a shrew darting around on this bare spot one moonlight evening, probably searching for the frozen bodies of insects. While I watched, the snow crumpled away at one part of the wall fronting on the under-table clearing, and out of a snowy tunnel came a fat-bodied field-mouse.

The shrew flung itself on that much larger mouse at once, though the vole seemed more than double the size of the slender, fast-moving shrew. In a few seconds the mouse was

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dead. At this stage I interrupted, using a flash-light. The mouse had a slashed throat, from which the blood was still welling. And the ferocious little shrew, who had squeaked a high-pitched snarl at me before running away, had shot off some of that obnoxious scent that shrews carry in convenient glands... a strong odour which most of the larger hunting animals dislike so intensely that they will not touch shrews. Thus the scent saves the lives of shrews on many occasions.

What an appetite!

I put out the light and waited, and soon the shrew returned to feast upon its victim. By morning, only a few shreds of mouse-skin were left under that tabletop, mute evidence of the terrible appetite of the tiny killer. Shrews are noted for their hunger: some naturalists who have kept them in cages report that shrews die of starvation if deprived of food for so short a time as a single day! And if you cage two shrews together, one will invariably kill and eat the other.

But shrew hunger is beneficial to man. The tiny hunters destroy many mice that would otherwise prey on our grain and fodder crops. Shrews do not hibernate in winter, hence are foraging continually to satisfy their terrible hunger. So down into the hidden mouse runways they go, seeking victims from that rodent clan.

Shrews mate in spring and summer, the only period when they are sociable. The rest of the time shrews are solitary animals, and even mother-shrews have to be on their guard to protect themselves and young from the cannibalistic hunger of male and female shrews. During the mating time, male shrews are noted as singers. They trill out a thin, high-pitched song that keen-eared woodsmen have often heard. While singing, the performer sits up on his hind legs and wags his sharp-pointed snout back and forth in evident enjoyment of the concert. A sweet singer, but the rest of the time he's a savage little hunter with a very hungry stomach.

Bark destroyers

The other small track-makers are equally interesting. Red-backed Voles are the forest-dwelling relations of the short-tailed meadow-mice. Red-backs are heavy bodied rodents with destructive teeth. They are responsible for so much of the tree-girdling in orchard districts; if you have an orchard established behind your farm home, you'd be wise to put a wrap of metal fly-screen around the trunks of Cherry-plums, Crabs, and Apple trees every autumn to protect them from the gnawing attentions of Red-backed Voles during the winter. Voles attack at ground level under the snow, chewing off all the bark around the tree base to kill it.

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Perhaps you're right — if you've been using *ordinary* weed killers. There are all kinds of weeds — some tougher than others — and experience shows that no one weed killer works equally well on all weeds.

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formulations that have proved effective on thousands of Canadian farms. For weed problems along roadsides, fencerows, ditchbanks and other places where brush is a problem, try Esteron Brush Killer or Esteron 245, both containing esters of the new chemical 2,4,5-T.

Where weeds are average — not overly hard-to-kill — ask your Dow dealer about 2-4 Dow Weed Killer, Formula 40 — the finest 2,4-D amine salt weed killer made today. Whether it's amine or ester, a spray or a dust, look to Dow for dependable weed killers — the *right* weed killer for your weed problem.

FIELD NOTES

New Product for Grass Control



Grass can be just as big a problem as other weeds. To combat undesirable grass, Dow has developed a new chemical spray — Dow Sodium TCA 90%. Applied in low dosages, this new chemical will kill most annual grasses and retard perennial grass, leaving roots to control erosion. In higher dosages, Dow Sodium TCA 90% will give effective control over such perennial grasses as quack, timothy and Canadian blue grass. Dow Sodium TCA 90% has many interesting applications where grass is a serious problem.

A More Powerful Dairy Spray
Dow Lindane — 25% — Wettable offers dairy farmers new opportunities to control flies more effectively. Applied as a residual spray to walls, ceilings, refuse piles and other breeding and resting places, Lindane retains its killing power for from 3 to 6 weeks. It has also proved effective against certain flies which have shown resistance to DDT. Lindane also can be used effectively in controlling sarcoptic mange mite. Dow Lindane — 25% — Wettable brings new standards of fly control within the reach of every dairyman.

Penta-Treated Posts Cut Fencing Costs

Dow Wood Preservative, containing Pentachlorophenol, can actually cut fencing costs. Applied to posts it will control termites and decay, increasing post life by years. That means less time and money wasted in replacing posts. Dow Wood Preservative can be applied right on the farm without any special equipment. It leaves the wood clean and easy to handle, yet provides effective, lasting protection.

Further information on any of these products is available at your Dow dealer. Or write Dow Chemical of Canada, Limited, 204 Richmond St. W., Toronto 1, Canada.

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2-4 Dow Weed Killer, formula 40, a proved amine type weed killer.





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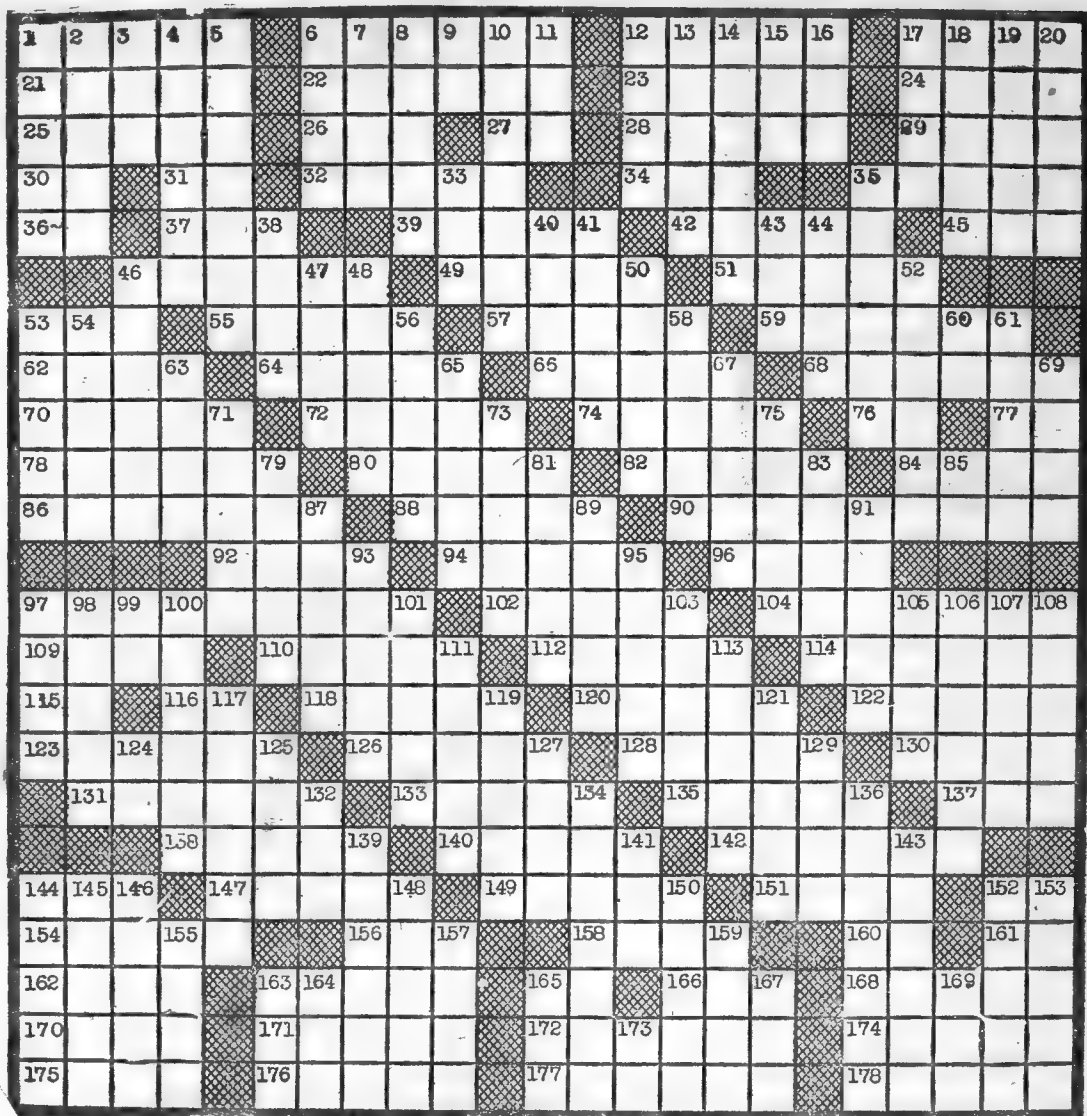
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OUR CROSSWORD PUZZLE



HORIZONTAL

- | | | |
|------------------------------------|--------------------------------|----------------------------|
| 1 Deadly snake | 64 Singer | 128 A sweet-heart |
| 6 Replacements | 66 One who gives | 130 To fuse |
| 12 Cutting implement | 68 Gives | 131 Temp-tresses |
| 17 Spanish room | 70 Posts | 133 Remained upright |
| 21 Spirit in Shakespeare's Tempest | 72 Lassoos | 135 Beverages |
| 22 A squadron | 74 City in Michigan | 137 Things in law |
| 23 Household gods | 76 Comparative ending | 138 Burst forth |
| 24 Wolf hound | 77 Butterfly | 140 God of winds |
| 25 Last name of screen actor | 78 Bid | 142 Cuts |
| 26 Sailor (sl.) | 80 Antagonist | 144 Headgear |
| 27 Pronoun | 82 Brooded | 147 Once more |
| 28 Levels | 84 Tax | 149 Argue for or against |
| 29 Donate | 86 Rocks | 151 Erase |
| 30 And (Fr.) | 88 Provisions | 152 College degree |
| 31 Plural ending Hebrew noun | 90 Creditable | 154 Coverings of seeds |
| 32 Separate | 92 Pertaining to the dawn | 156 Negative |
| 34 Moist | 94 Goods sunk in sea with buoy | 158 Pheasant broods |
| 35 Carouse | 96 Tibetan priest | 160 Type measure |
| 36 Prefix: down | 97 Confuses | 161 Negative |
| 37 Recede | 102 Pertaining to war vessels | 162 A rig-marole |
| 39 Gives out | 104 Bounty | 163 Unsophisticated |
| 42 Kind of cloth | 109 Mohammedan priest | 165 Upon |
| 45 Before | 110 Russian storehouse | 166 Signifying maiden name |
| 46 Roman official (pl.) | 112 Kind of blossom | 168 Longed for |
| 49 Pondered | 114 Legislative body | 170 Biblical word |
| 51 Benches | 115 Note of scale | 171 Mountain nymph |
| 53 Noise | 116 River in Italy | 172 Young girls |
| 55 Crave | 118 Covers | 174 Threefold |
| 57 Celebrated | 120 Assessment rating | 175 Military meal |
| 59 Marsh birds | 122 The devil | 176 Goods |
| 62 Finishes | 123 Narrow, thin pieces | 177 Flowers |
| | 126 Part of stable | 178 Game of cards (pl.) |

VERTICAL

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|------------------------|----------------------------------|-------------------------------|
| 1 Imprisoned | 60 Type measure | 111 Growing out |
| 2 Talk | 61 Quiet | 113 Grecian Island |
| 3 Baby's napkin | 63 Cut | 117 Musical dramas |
| 4 Depended | 65 Former Russian naval station | 119 Boat |
| 5 Distilling apparatus | 67 To turn back | 121 Loaded |
| 6 Droops | 69 Lone | 124 New England state (abbr.) |
| 7 To support | 71 Spirited horse | 125 Comfortable |
| 8 Swaying | 73 Kind of fabric | 127 Move about lazily |
| 9 Sun god | 75 Part of flower | 129 Main body of church |
| 10 Publication | 79 Eat away | 132 Mineral spring |
| 11 Rested on chair | 81 Lawful | 134 Spanish female chaperones |
| 12 Exhaled vigorously | 83 French novelist | 136 Chooses |
| 13 Washes | 85 Prefix: toward | 139 Smaller |
| 14 Mountain ridges | 87 Preserves with sodium chlorid | 141 State |
| 15 Lair | 89 Flavor | 143 Saying |
| 16 Worm | 91 Biblical weeds | 144 To glance |
| 17 Wise | 93 Blanket slippers | 145 To erase |
| 18 Animate | 95 Pertaining to birth | 146 Longs for |
| 19 Edible seaweed | 97 Small pieces | 148 Suddenly flaring stars |
| 20 To anoint | 98 To give out | 150 Thick |
| 33 Mischievous sprite | 99 Note of scale | 152 Concerning |
| 35 Quit | 100 Baseball official | 153 Portends |
| 38 Inkstain | 101 Gaiters | 155 Meadows |
| 40 Walked | 103 Musical instrument (pl.) | 157 Spreads for drying |
| 41 Surgical thread | 105 Eat away | 159 One who foretells |
| 43 Things in law | 106 Consumers | 163 At this time |
| 44 Group | 107 Old | 164 Constellation |
| 46 Salad herb | 108 Dispatches | 165 Palm leaf |
| 47 Always | | 167 Worm |
| 48 Spanish title | | 169 Narrow inlet |
| 50 Kind of cloth | | 173 Street (abbr.) |
| 52 Ancient city | | |
| 53 To give up | | |
| 54 Silly | | |
| 56 Subject | | |
| 58 Sadness | | |

SOLUTION NEXT MONTH

Hey, watch it!



Mrs. W. D. Archer of Didsbury sent us this shot of a cat about to make a frontal assault on her grandson's birthday cake.

What's the condition of our soil?

Soil samples, taken on District Experiment Sub-stations in the fall of 1949 for the purpose of determining the present content of total nitrogen and organic matter, indicate that the percentage of organic matter in the soil is now only about one-half the amount that was present in the virgin soil.

Analysis indicate that the soil at the Goodlands station on a four-year rotation of fallow, wheat, hay and break, and barley has an organic content of 6.58%. The original virgin soil on this station showed an organic content of 10.68.

This year's results of soil samples taken at Hargrave, where an eight-year rotation is practised, show an organic content of 6.13% as compared with 12.68% in the virgin sod.

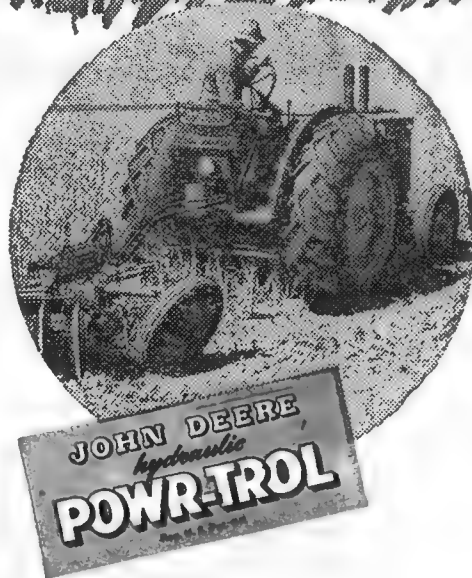
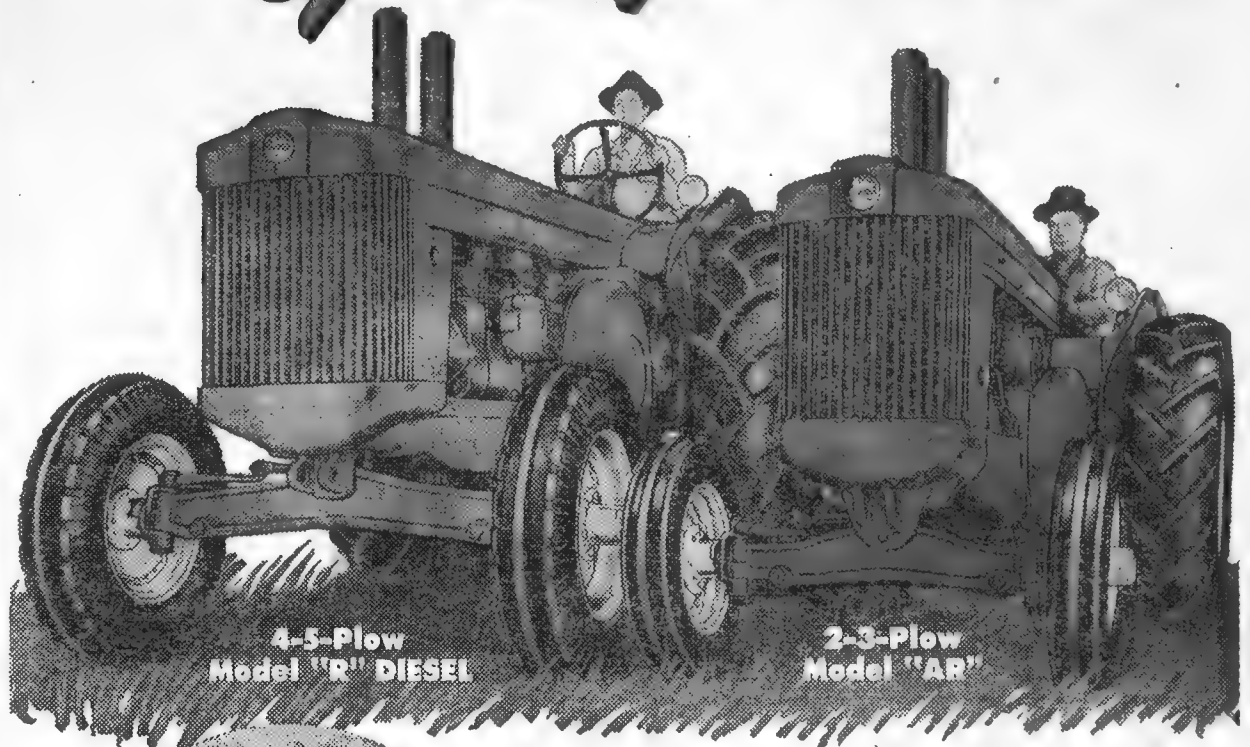
The Pipestone light, sandy, loam soil shows an organic content of 2.07% compared with 5.40% in the adjacent virgin prairie. Similar comparative studies in other parts of the province indicate that the organic content of our soils is gradually becoming depleted. Furthermore experiments proved that many years of grassing down are required to increase the organic content even up to one per cent.



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The Model "AR" meets the complete needs of farmers who want full two- or three-plow power. It is available with either all-fuel or more powerful gasoline engine. Like the Model "R," the new "AR" is strictly modern—way ahead of the field in design.

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What's next? Russian control of the whole Asiatic Continent

By BEN MALKIN

ASIA is a remote concept to most Canadians. Europe is almost as close as the United States. Many Canadians, especially in the west, are of European origin. Thousands still have close relatives living there. Tens of thousands of others served in Europe during the war. But of the continent of Asia, where more than half the world's population lives, they know virtually nothing. And until recently, they cared less.

Today all that is changing. The area of world tension, for one thing, has switched to Asia. It is becoming more clearly recognized that not only Germany and Russia may be the keys to world peace, but Asia, and particularly the southeast section, including French Indo-China, Siam, Burma, Malaya and Indonesia, may be equally important. All this has come about since the victories of the Chinese Communists.

What has happened is this. In the past 18 months, the Communists have thoroughly defeated the forces of the Nationalist government under Generalissimo Chiang Kai-shek. They now occupy the whole of China on the mainland of Asia. A poverty-stricken mass of 400,000,000 people, they have rejected all expressions of good will from the West, and are turning to Russia for help. Moreover, it is doubtful whether they will be content merely with Communist sovereignty within their own borders. They have their eye on Formosa, which is defended by only 100,000 Nationalist troops, a force of about 50 naval vessels, and 500 airplanes of all types. It is feared their influence may cause the people of the whole of southeast Asia, numbering more than 100,000,000 people if Indonesia, India and Pakistan are excluded, to accept Communist rule. The result would be that almost half the population of the world would be under Communist domination.

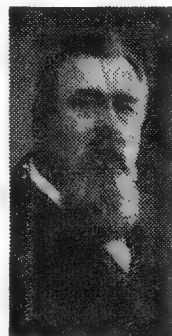
No Policy

The West has found no clear or uniform policy to cope with this development. Britain and the United States have split over the question of recognizing China, with the United Kingdom extending diplomatic recognition, and the United States withholding it. In the United States itself, a vacillating policy over extending aid to Nationalist China appears to have been followed. But if there has been vacillation, it was because not only was there a split between the civil and military authorities in Washington as to what should be done about China, but the military men themselves are at odds in the matter.

The civil authorities saw no further point in extending help of any kind to Nationalist China. Arms, money and other supplies might only end up in the hands of the Communists, as they have in the past. The chiefs of staff in Washington, on the other hand, have favored the sending of a military mission to Formosa. It would not be a military force, but would be a sort of token that the U.S.

(Continued on page 23)

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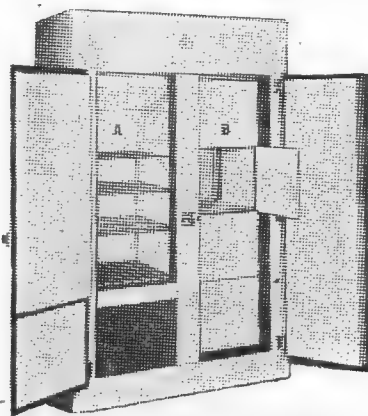
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- 11½ cubic feet capacity on self-contained type.
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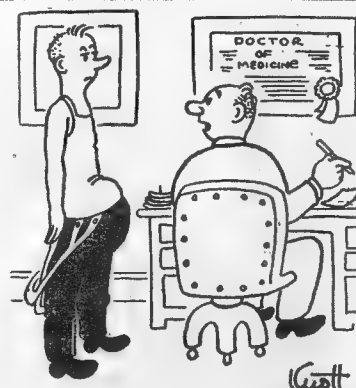
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More Horsepower



M. P. Lambert of Parkbeg, Sask., sent us this picture of one man and 12 horses moving a small house.

(Continued from page 22)

is still supporting the Nationalists. General MacArthur, head of the Allied occupation forces in Japan, has favored a policy of holding Formosa for the U.S., as he believes the island, 100 miles off the coast of China, essential to American Pacific defence.

The civil authorities represented in the U.S. State Department won the argument, and Formosa will have to be defended by the Nationalists, if it is defended at all.

The concern with which all this is viewed in other parts of Asia came out at the Colombo conference in Ceylon. Attended by a number of Commonwealth countries, including Canada, the

Put it this way:

"Many a man in love with a dimple makes the mistake of marrying the whole girl."

—Stephen Leacock.

meeting suggested a program for improving the standard of living of Asians as the best method of combating Communism.

The Wherewithal

Observers have since pointed out that without American help, the Commonwealth can do little in this respect. Certainly the smaller countries, such as Australia and Canada, cannot undertake to underwrite the progress of the people of India, Pakistan, Burma and Ceylon. At the same time, Britain for several years has been sending all the goods she could spare to southeast Asia, in payment of wartime debts. One result of this has been that Britain has not had sufficient goods to sell in the dollar markets of Canada and the United States, with recurring crises in the United Kingdom the consequence. It is doubtful if Britain can do much more for Asia than she already has.

The responsibility for extending such aid to Asia as will cause the Asians to reject Communism therefore rests with the United States. The prospects that such aid will be forthcoming on a large scale are not bright. This is an election year in the United States, and Con-

gressmen are in no mood to vote large sums for foreign assistance. European aid to Europe is expected to be cut substantially from what it was last year. But if such aid is not given to Asia, then the West may lose by default whatever influence it has to the vigorous young government of Communist China.

Canada's stake in the outcome is heavy, for Canada is a Pacific country which had in the past hoped for a large trade with Asia.

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B.C. Fruit Growers hold highly successful convention

By A. J. DALRYMPLE

PENTICTON, B.C.—Major event at the 61st annual convention of B.C. Fruit Growers' Association in Penticton, January 17-19 was the overwhelming vote of approval given the Board of Governors in their decision to make a gift of one million boxes of apples to Great Britain.

In attendance were 86 delegates representing 3,600 growers and ratification came with but one missing voice.

Value of the gift was not given from the platform, but it is estimated that cost of producing, packing and storing one box of apples for market is \$2; and in addition the growers are faced with meeting the cost of shipment to seaboard, 26 cents per box.

Britain is to pay freight from Pacific coast.

Grower organizations had faced dwindling markets abroad, and could not increase local sales on a grand scale, and so were haunted by the spectre of dumping; something they could not bring themselves to do. They made the generous gesture to the Old Country.

Naturally, they hope that the bread thus cast upon the waters, will at some future purchasing date, return to the Okanagan Valley in the form of overseas contracts.

Mutual Insurance

Second decision of major importance was the vote of the membership in favor of forming a mutual hail insurance company under the probable title of B.C. Fruit Growers' Hail Insurance Co. The bill has been drafted and goes before the next session in Victoria.

The vote followed through investigation of the insurance business during the past year by the hail committee. It was a tough proposition. Some favored insurance on a per box basis; others wanted it on a premium basis and some did not want it at all.

However, the majority favored a voluntary mutual plan which would fit the legal requirements of government; and Ivor Newman, president, told the delegates that success or failure of the new-born corporation would depend upon the support they gave it.

There was considerable discussion on improvement in public relations, advertising campaigns to stimulate consumer interest in fresh fruits and vegetables, and fruit juices.

Some delegates felt that a more intensive sales campaign could be achieved, and as is so often the case, there were recitations of the super achievements of grower organizations across the line.

Those who had made personal surveys in Eastern Canada and U.S.A., however, stated that the results shown by the grower-owned B.C. Tree Fruit Ltd. sales agency, competed favorably with those of other nations.

Suggestion was made that contact men be engaged to call upon retailers to increase business. It was pointed out, however, that cost per man would run about \$750 per month, and that over wide territories there could be but infrequent calls, and the results might not warrant such heavy expenditure.

J. B. Lander, sales manager, B.C. Tree Fruits Ltd., reported that as of January 14, the organization had shipped 10,000 cars during the season, with 5,000 yet to ship. Tonnage included both fruits and vegetables.

Cherry crop was the largest ever produced; total express carlot shipments was 417 cars; shipments to fresh fruit market, 520,109 cases, an all-time record.

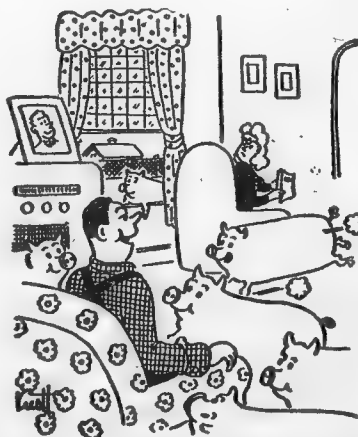
Apricots exceeded preceding years by 100,000 cases; total shipments of peaches, including canners, 2,003,732 cases; an increase of about 200 cases over 1948.

Plums were slightly in excess of 1948; quality good, but market unreceptive; prunes exceeded 1,000,000 lugs; more than 750,000 on fresh fruit market; an all-time high.

Bartlett's: volume about same as 1948; Flemish the same; D'Anjou crop lighter. Cantaloupes about same as 1948; grapes did not measure up to early estimates; total of 149,210 baskets of grapes sold in fresh state.

Crabapples are not gaining in popularity.

Apple production reached almost eight million boxes; approximately 50 per cent had been sold by year end. More than 2,000,000 sold in Canada; 432,308 to United Kingdom; 878,572 to U.S.A.; and smaller lots to Brazil, Malaya, West Indies and overseas lands.



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Fruits from seed the first year; easily grown. Bush form, about one foot high. No runners. Hardy perennial. Bears abundantly from early summer till killing frost. Has an intense luscious flavor and aroma like that of wild strawberry; rich and juicy. Neat compact bushy growth makes it highly ornamental as well as valuable in vegetable, fruit or flower garden, borders etc. A showy pot plant too. Though smaller than commercial strawberries Mont Rosa is the largest fruiting of any variety we know from seed, surpassing the popular solemacher and similar types. Its unique bush form and exquisite flavor place it in a class by itself for every home garden. Seed supply is limited. Order early. (Pkt. 25c) (3 pkts. 50c) postpaid.

FREE OUR BIG 1950 SEED AND NURSERY BOOK

DOMINION SEED HOUSE
GEORGETOWN, ONT.

In buying seed are you penny wise and pound foolish?

By F. W. TOWNLEY-SMITH

It happens, unfortunately, so very often! The greatest care and a lot of thought is given to things that are not so terribly important, while some vital and fundamental part of a scheme or project is hurried over or taken for granted. Sometimes, of course, its importance is not even recognized, which makes the matter a little more unfortunate but does not alter the depressing affect of the ultimate result.

On a great many Canadian farms the big costs of producing a crop are made up of the investment in the land and machinery which in times like these, is very high. Then, the cost of preparing the seed-bed, the ploughing, discing, harrowing which precedes the seeding. Then another time over with the harrows, and, if possible, packing. Also, just at this time the question of the cost of fertilizer must be dealt with.

Then, in due course, comes the harvesting. Swathing and combining and hauling to the elevator. (Perhaps you have noticed where the price of binder twine has got to!) All these processes cost quite a lot of money but there is one thing we have not yet mentioned and this thing may make all the difference between profit and loss. This small but highly important thing is the *Seed*! In comparison with the cost of some of the other things we have enumerated, it really does not cost very much per acre.

The official Seeds Act defines three classes of Seed. (1) Registered Seed, (2) Certified Seed and (3) Seed. A few minutes study of these three classes will be of interest when we are trying to figure out what our seed is costing. There are three grades of *Registered Seed*, numbers 1, 2 and 3. Two of Certified, numbers 1 and 2, and three of *Seed*, numbers 1, 2 and 3. In each case we will look at the number 2. We must remember that this is seed which has been cleaned to the best ability of the operator and finally inspected and placed in its proper grade.

We find that, by law, Registered number 2 wheat must not have more than one (1) primary plus secondary weed per bushel, or a total of all weed seeds of ten (10) per pound. It may also contain not more than two (2) other crop seeds per pound. These are the maximum limits allowed by the law, but, generally speaking, Registered Seed growers take a great pride in their product and keep these undesirable contents down very much lower than those quoted above.

In the Certified number 2 wheat, not more than two (2)

primary plus secondary weed seeds are allowed per peck, or a total of all weed seeds of fifteen (15) per pound. It also may not contain more than two (2) other crop seeds per pound.

Why Grow Weeds?

In the case of *number 2, Seed*, which is sometimes called Commercial Seed, three (3) primary plus secondary weed seeds are allowed, per pound, and a total of weed seeds of 50 per pound.

It is now possible to compare the three classes of seed, but a simpler way perhaps and one much easier to remember, is to estimate just how many weeds, and other kinds, we might be sowing, *per acre*, if we seeded at the rate of a bushel and a peck. In the first class, *Registered Seed*, we would be putting in one primary plus Secondary, and 750 total weed seeds; also 75 other crop seeds. In the next best class, *Certified Seed*, we might be seeding ten (10) Primary plus Secondary and 1,125 total weed seeds; also 150 other crop seeds. In number 2 Seed—sometimes called Commercial Seed—we could be seeding 225 Primary plus Secondary, and 3,750 total weed seeds; also 1,875 other crop seeds. All these quantities, as we have stated, *are per acre*, and may be contained with the seed according to the class which we may be using.

By making a comparison of this nature, it is fairly easy to see which is the best seed to use and which in the long run is going to be the cheapest.

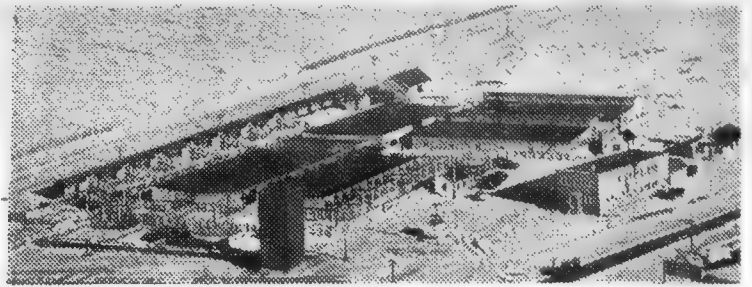
If you use the number 2 Seed (sometimes called Commercial Seed) you may be putting in 75 seeds per acre of Couch Grass, or Darnel, or Perennial Sow Thistle, or Wild Mustard, together with 150 seeds per acre of Ball Mustard, Canada Thistle, False Flax, Poverty Weed, Toad Flax, or Wild Oats; also a total of 3,500 weeds that are not Primary or Secondary noxious, such as Wild Barley, Wild Buckwheat, False Wild Oats, Lambs' Quarters, Russian Pigweed and Annual Sowthistle. When it is brought down so as to be readily understandable, it sounds like an awful mess, doesn't it?

In comparison with the figures set up for Registered Seed—the first class mentioned, it certainly makes one pause and wonder whether anything is really cheaper because it costs less.

There are several other reasons that go to prove that it pays to use Registered Seed but this matter of the actual per acre cost, is one which should be given considerable thought.

Without a shadow of a doubt it pays handsomely to use Registered Seed.

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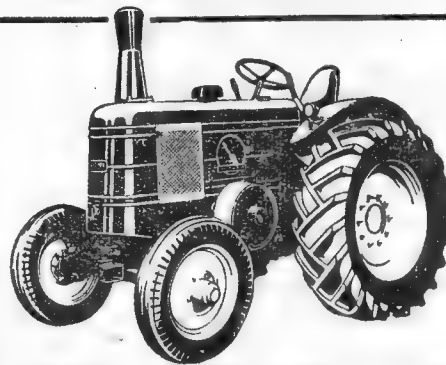
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308 - 11th Ave., East, Calgary, Alta.

THE practice of bulk purchase of food and raw materials, developed by the United Kingdom during the war, has been continued through bilateral trading arrangements.

The purpose of agreements, together with exchange controls and import and export licensing, is to encourage trade with the sterling area. Originally considered to be short-term trade measures, the tendency now is to negotiate agreements for a period of years and

Who supplies Britain with food? Here are the bulk contracts

to combine bulk-purchase contracts with long-term production expansion involving the use of British capital. Thus the "temporary" loss of a large part of the British market for farm products from dollar areas may be made permanent.

United Kingdom bulk purchase contracts vary in duration from 1 to 15 years. In 1948, they represented 92.5 per cent of all retained imports of foods, feeds, and beverages and 55.9 per cent of all raw materials, chemicals, and metals. In that year, bulk-purchased grains and cereals were valued at \$716 million; tea, cocoa, and coffee at \$316 million; sugar and glucose at \$195 million; fruits and vegetables at \$180 million; dairy products, eggs, oils, and fats at \$920 million; and raw

discussions have extended the scope of the agreement to cover buttermilk powder, with an increase of shipments from 200,000 tons in 1949 to 600,000 in 1955."

Denmark

"The latest butter agreement with Denmark for 6 years beginning October 1, 1949, provides for 75 per cent of the exportable surplus butter, but not more than 118,000 tons, subject to annual price revision of 7.5 per cent each way. In addition, a contract was made covering 85 per cent of Denmark's exportable surplus of eggs, as part of a 3-year agreement, which expires October 1, 1950. The 15-month bacon agreement through December, 1950, provides for Danish shipments to the United Kingdom of 118,000 tons, about half of Britain's total imports of bacon."

As part of the 1949 agreement with Denmark, additional foodstuffs including cheese, condensed milk, meat and fish will be imported into the United Kingdom.

Poland

"Food contracts with Poland provide for annually increased shipments between 1949 and 1953. In 1953, imports will include 165 million pounds of bacon, 23 million pounds of poultry, and 9 million pounds of canned meats (mainly hams)."

Argentina

"The 5-year trade and payment agreement with Argentina, effective July 1, 1949, provides for an approximate balancing of trade. During the first year, Argentine exports, to total \$522 million, will include 300,000 to 400,000 long tons of meat, 20,000 tons of canned corned beef and/or mutton, and specified quantities of grains, fats and oils, wool, hides and skins, and other raw materials. In exchange the United Kingdom will supply petroleum and petroleum products, coal, iron and steel manufactures, chemicals, machinery, ships, and wide range of manufactured goods, to a total value of \$492 million."

"I consider it the best part of an education to have been born and brought up in the country."

—Bronson Alcott.

cotton at \$375 million. Under the current food contracts, the British Commonwealth countries supplied Britain with 97 per cent of its wheat, 55 per cent of its meat, 87 per cent of its cheese, and 79 per cent of its butter.

Australia

The United Kingdom has guaranteed to purchase the exportable surplus of meat in Australia, up to a specified ceiling for 15 years. The trade is expected to increase from 250,000 to 400,000 tons annually. Current annual agreements cover 60 million bushels of wheat.

New Zealand

In 1948, New Zealand's entire export surplus of pork was contracted for 4 years and all other meats for 7 years. Prices are subject to a maximum variation of 7.5 per cent annually. Average exports of 344,000 tons are to be increased by 50,000 tons by 1955 with the aid of British capital, machinery and materials. The agreement also covers nearly all New Zealand's butter and cheese exports. "Present

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Alberta established the present network of Provincial Treasury Branches to assist business, industry and the individual. This service includes the handling of money in all its phases. Among these services are business loans and personal loans. As well there are savings and checking accounts . . . in all a service of value to the individual and the community. It is well to remember that planned savings go with new wealth. Drop in to your Treasury Branch tomorrow!

Your BEST Security is Alberta's Future

Your Provincial



**TREASURY
BRANCHES**

GOVERNMENT OF THE PROVINCE OF ALBERTA

Solution to last month's puzzle

P	U	N	I	C		D	O	T	S		B	A	T	S		T	A	P	I	S			
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Landscaping your farm

As a result of the labor shortages of recent years the landscaping and shelter-belt planting on many Manitoba farms has been postponed. Farmers have naturally used their resources to carry projects more productive in terms of immediate financial returns. Attractive home grounds do, however, develop within the farmer and his family a greater pride in ownership, besides being a source of enjoyment and lasting satisfaction.

Trees around farm buildings protect them from extreme cold, as intensified by the wind. Their shade and foliage in summer make the farm a more pleasant place to live. A wind-break may ultimately be a source of wood on the farm.

This is the season for planning. In considering improvements to be carried out in 1950 it would be wise to design a farm landscaping plan to include tree shelterbelts. The farmer could then prepare land in the summer of this year in preparation for setting out trees and shrubs in the spring of 1951. The increased value of a farm attractively landscaped and well protected with windbreaks is considerable.

Farm fires cause heavy losses

FARM fires in Canada annually cause an estimated \$10,-254,000 loss of farm property, according to a survey made by the Dominion Bureau of Statistics. Only 37 per cent of this loss was covered by insurance, indicating that a relatively small proportion of farm property is adequately insured against fires.

It is estimated that 45 per cent of the 8,000 fires occurred in barns or outhouses. The farm house was the location of 38 per cent of the fires, and 15 per cent were stubble, bush or grass fires. The remaining two per cent of the fires concerned machinery and equipment. In addition to buildings, including the farm home, it is estimated that farm equipment was lost or destroyed in 16 per cent of the fires and equipment and livestock in 15 per cent.



"Transfer Jenkins to some other department until after the cold season is over."

How to seed an acre in 8 minutes

Experience has proved that the sooner you get your seed in the ground, after the land is fit, the better is your chance of a good crop.

With the new Massey-Harris wide-level disc harrow, with grain box attachment, you can seed up to 75 acres a day. Others are doing it. This machine takes a cut of 15½ feet . . . has 30 discs, 30 grain runs. Discs are one-way . . . grouped in five floating gangs for even-depth cultivation. At 4 miles an hour, it seeds an acre in 8 minutes, without pulverizing the soil. Leaves the land level.

This new wide-level disc is easy to handle. Has exclusive Massey-Harris "Roto-Lift" for raising and lowering discs gently, yet positively, under power. Can be converted in a few minutes from 15½-foot working width to 8-foot transport width. It's a money-maker for big-farm operators. Get full particulars from your Massey-Harris dealer.

Also available in 24 disc size.



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CALGARY, ALBERTA



• LETTERS TO THE EDITOR •

Customs Union wins approval

To the Editor:

I like your Editorial, let's negotiate a Customs Union.

It is evident that us Canadians are just becoming serfs to American capital interests.

The American oil interests have acquired millions because of their ownership of oil rights, bestowed on private people in the original. They will now use their leverage to exploit to the full. It is always private capital that develops the natural re-

sources, not government money, so I say that farmers should have a fair share of the revenue from the oil discovered below their land.

There will be many more valuable minerals discovered in Canada. These minerals should be granted to the prospectors in the most liberal way possible, not hampered by the provincial governments like Alberta tries to hamstring her prospectors, except the big monied class.

A Customs Union would certainly solve some of our long freight haul problems, and would ease some of our high protection mechanical devices, these methods are all a means

Free Book on Arthritis And Rheumatism

Excelsior Springs, Mo., Feb. 1—So successful has a specialized system proven for treating rheumatism and arthritis that an amazing new book will be sent free to any reader of this paper who will write for it.

The book entitled, "Rheumatism," fully explains why drugs and medicines give only temporary relief and fail to remove the causes of the trouble; explains how you may obtain relief from rheumatism and arthritis.

You incur no obligation in sending for this instructive book. It may be the means of saving you years of untold misery. For writing promptly, the Clinic will send their newly enlarged book entitled, "Rheumatism". Address your letter to The Ball Clinic, Dept. 506, Excelsior Springs, Missouri, but be sure to write today.

WINNERS...

OF THE BUCKLEY HIDDEN CITY CONTEST

Correct Answer — LETHBRIDGE

1st PRIZE, Addison Mantel Radio — Gladys Rive, Riverhurst, Sask.; 2nd PRIZE, \$15.00—Patricia Buczulak, Kelihier, Sask.; 3rd PRIZE, \$10.00—Miss Betty M. Wolfe, Clouston, Sask.; 8 PRIZES of \$5.00 each—Wm. J. Antosco, Jr., Leduc, Alta.; Mrs. D. J. Carroll, 1339 Ave. H.N., Saskatoon, Sask.; Miss Engelberta E. Skibinski, Weekes, Sask.; Miss Diana Mary Polard, North Pender Island, B.C.; Mr. Jack Wyatt, Jr., Box 18, Hillcrest, Alta.; Mrs. Jos. F. Ducharme, St. Laurent, Man.; Nick Swerdan, Duffield, Alta.; Ed. Hunt, 916 Manhattan Rd., Kelowna, B.C.

W. K. BUCKLEY LIMITED wishes to thank all contestants for their interest.

to make the little man the serf proper.

An instance is the American gets his car for about two-thirds of what we must pay, at the same time we must accept less for our products as a whole.

Your remarks are all to the good.

F. F. Cameron,
Rocky Rapids, Alberta.

Approves of slaughter of coyotes

To the Editor:

I read Kerry Wood's article entitled "Organized wild-life slaughter disguised as 'coyote hunts'". in the January, 1950 issue of the Farm and Ranch Review.

I disagree with it. As far as I judge he could never have been a farmer and have seen sheep mauled and badly bitten by a coyote. If he had seen sheep come home with five or six in the flock that have 'chunks' bitten out of them he wouldn't think killing coyotes very harmful. Every time the sheep are allowed to go out to feed they are chased, many times some are killed. This makes it necessary to herd them.

Do you think it very sporty when the city people come driving along the country roads, with their shot guns, and shoot the wild birds near the farmers' homes? It's the farmers that protect and feed these birds throughout the summer. So what harm is there if a farmer does get an odd bird in the coyote hunt. The city people go around shooting in the fall time so why shouldn't a farmer be able to get a few birds?

In my estimation they should carry on with all the coyote hunts. The more of them killed the better.

Yours truly,
(Miss) Edith Bowman
Wenham Valley, Alta.

We'll get along

To the Editor:

Although farming is only a sideline with me, I like the way you spaced your ideas on foreign investment in Canada in a recent issue. Six dollars for one — is about ALL.

Guess we'll get along somehow if both New York and London disappear into the Land of the Forgotten. Sweden keeps out of trouble (wars for just,—markets). We can do as well or —better.

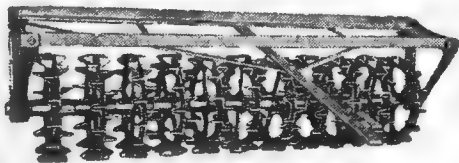
Yours sincerely,
John D. Naismith,
Youngstown, Alberta.

Put it this way:

"If you are ever in doubt as to whether you should kiss a pretty girl, always give her the benefit of the doubt."

—Thomas Carlyle.

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The Royal Land Packer is unexcelled for efficient design and sturdy construction. Available in all sizes from smallest to largest requirements, at most economical prices. Get our catalog and price list and place your order now for Spring delivery.

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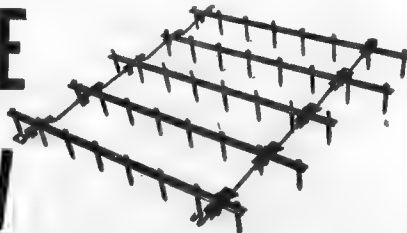


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& SUPPLY CO.**

507 - 2nd St. E., Calgary, Alberta

**MISSING
PAGE(S)**

Father ousts son as Barley King

CANADA'S national barley championship has been retained in the Bradley family of Manitoba's Portage Plains, but the father took it away from his son.

The \$1,000 cash prize in the 1949 National Barley Contest for the best sample of malting barley produced on the prairies has been awarded to J. F. Bradley, Portage la Prairie, father of 24-year-old Edward Bradley, the National Champion of 1948.

The runner-up of \$300 was won by R. H. Coats, Star City, Saskatchewan.

Alberta which hitherto has made a good showing did not place in the 1949 national awards. An unfortunate crop season put handicaps on its growers which they were unable to overcome. The Alberta entries were fewer than in previous contests and samples were not up to usual standards. To start with barley growing areas of the province had an unusually dry spring. July rains brought on a second growth which was caught before maturity by damaging frosts. The result was that many Alberta samples had green and otherwise deficient kernels which made it impossible to meet the competition from other provinces.

The provincial championship for Alberta was won by Fred Radford, Bowden, who was awarded \$200. Second and third places were taken by Jules Marien, \$150, and Isadore Marien, \$100, both of Enilda. These three provincial winners also won additional prizes of \$100, \$80 and \$70 respectively for placing in their regional contests.

New Bulletin on Mink Ranching

A new bulletin entitled "Mink Ranching" outlining methods of ranching mink applicable to conditions generally in Canada, has just been published by the Dominion Department of Agriculture, Ottawa. Written by Dr. C. K. Gunn, Superintendent, Experimental Fur Ranch, Summerside, P.E.I., the bulletin is well illustrated throughout and carries some excellent photographs showing the various steps in the construction of breeding sheds and pens.

For convenience of description, the subject material has been sub-divided under the following main headings: location of the ranch, housing of mink, selection of breeding stock, mink breeding methods, feeding of mink and primeness of fur and the pelting of mink.

The bulletin is available on request from the Dominion Department of Agriculture, Ottawa. Ask for Publication 827.

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Hydraulic "Walker" Jacks



Well-known dependable "Walker Brand". Require little effort to lift heavy loads.

3-ton special. Delivered. Each \$14.50
5-ton special. Delivered. Each \$18.95

3-TON TRUCK JACK



3-ton Truck Jack. Raises to 17 1/2". Folding handle. Special Delivered

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Fog or Driving Lamps.

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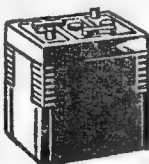
Dunlop No. 7, graduated 20 to 120 lbs. with valve remover attached. Every driver should have one of these. **\$1.49**
Worth \$2.95. SPECIAL

Flashlight Holders.

Clamps on steering-wheel column. Each..... **25c**
Battery carrying straps. **35c**
Each

BATTERIES

12-VOLT BATTERIES. WAR SURPLUS! BRAND NEW WILLARD.



Shipped uncharged and without water so as to lessen delivery charges. Sale Price, each

\$10.50

BLOW GUNS.

Attach to your air line. So useful to all mechanics and hobbyist who have compressed air available. These have push-button control. A Ribtor special. Each

\$1.19

HACK SAW BLADES

High-grade steel by Griffin. 12-inch size, 18 teeth per inch. Reg. \$1.75 doz. Sale, doz.

89c

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Especially well made with mounting brackets. Red, green or amber lens. State color. Sale price, per set

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Single Truck Clearance Lamps. Red, green or amber. Sale price. Each

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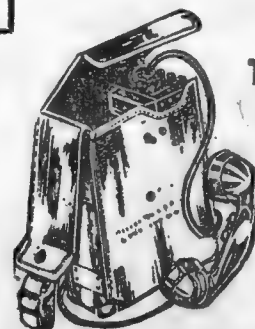
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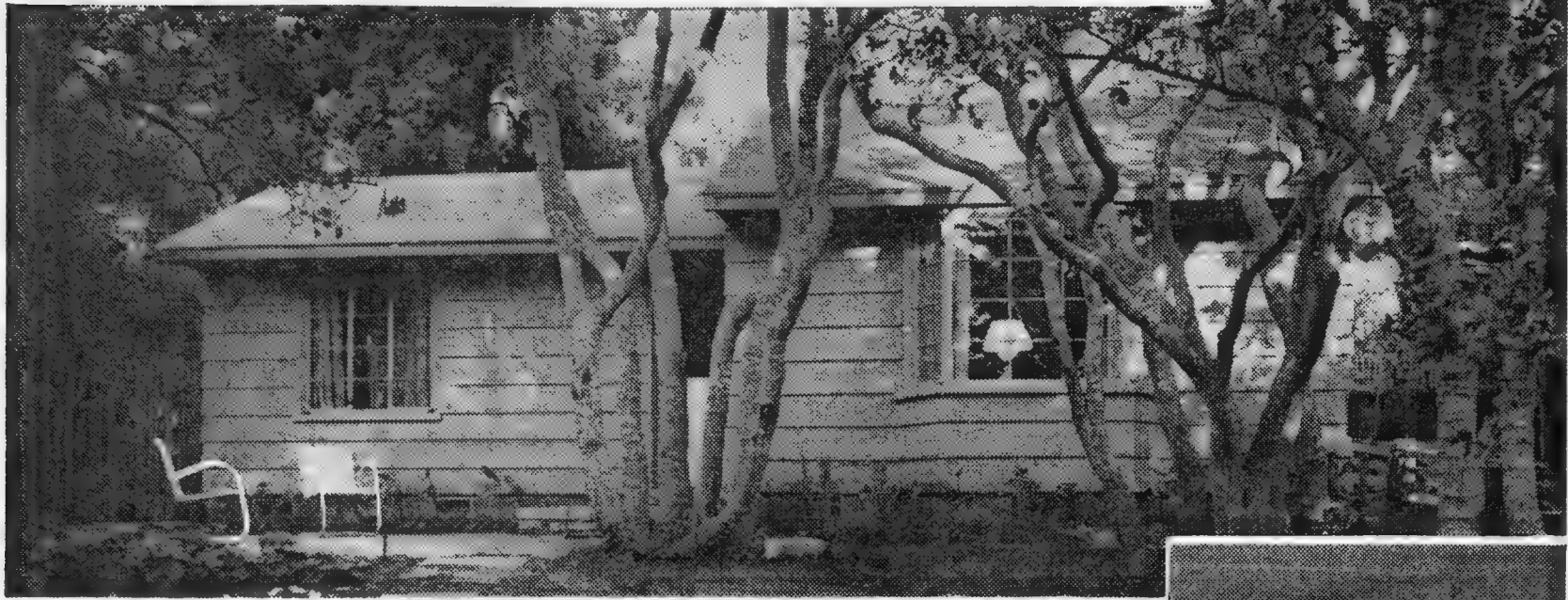
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CALGARY, ALBERTA

A doll's house in the wildwood? No, a liveable home full of charm!



This little house is shaded by trees that hug it on all sides. Stone and brick form friendly, casually-laid walk and "stoop". Stones wind lazily through trees, widen into uncovered porch, or terrace, when they reach raised entrance square.

Living room walls are planking, washed off with natural tan. Twin studio couches double as guest accommodations. Old chest in bay can be used as guest-bureau. Rugs, curtains and pillows have rusty-rose and green shades predominating. Coffee table is old "stand" cut to this convenient height. Lovely old plates act as lamp sconces and wall-grouping.



The southeast corner of the living-room is the dining area... small but cheerful. Old gate-leg table and grandfather-arm chairs fit well... table can be extended with leaves to reach in front of fireplace for big holiday dinners. Doors at left are to linen closet when studio couches are in use. Note ancestral oils in original frames against vertical planking.

Farm and Ranch readers will find ideas galore in this little house

Story and Pictures by LOUISE PRICE BELL

It's a long-discarded idea that folks who live in the country and whose homes are not furnished with the latest in everything, are not happy . . . in fact sometimes they are the most high-spirited ones to be found. And a wee house can be as packed with comfort and charm and good ideas as a large one. As good an example as you could find anywhere is shown in the Roberts' bailiwick.

The living room isn't large, yet it offers far more than many such rooms. Studio couches on opposite walls make grand daytime snoozing spots, and when there are overnight guests, the couches make fine beds. The lovely old chest in the bay is decorative, its top is handy for books, magazines and flowers . . . and the drawers are just as handy for guests' belongings. In the southeast corner — the opposite side of the fireplace from the couches — the sunny spot is given over to eating, since the house has no

dining-room. The roomy closet near the drop-leaf black walnut table is a storage space for linens, with one part kept empty for possible guest-usage.

Folding doors open into the pint-size kitchen, planned galley-style to be enlarged later when desired. When doors are open, meal-serving is a jiffy-job. When closed, the working center is shut from view. Although the bedroom is small, it's well planned and space-saving and the corner storage block does good service, is an item that Handy-Andy in any home might be coaxed to duplicate.

The owners have used old pieces of furniture in a really small house, yet the home is comfortable, charming, and liveable. For anyone thinking this combination isn't possible, it's a tangible example from which an idea or two may be snatched.

Wee kitchen is as compact as a ship's galley . . . folding doors make access from dining area easy, and just as easily shut out this working center. Between meals, table leaves can be dropped to make more room at this end of room . . . also easy access to built-in closets.

In the bedroom, identical beds fit snugly against built-in corner block . . . actually a roomy storage space for extra blankets and pillows. Colors in window fabric repeat those in tufted spreads. Beds are merely mattresses and springs set on sturdy legs.



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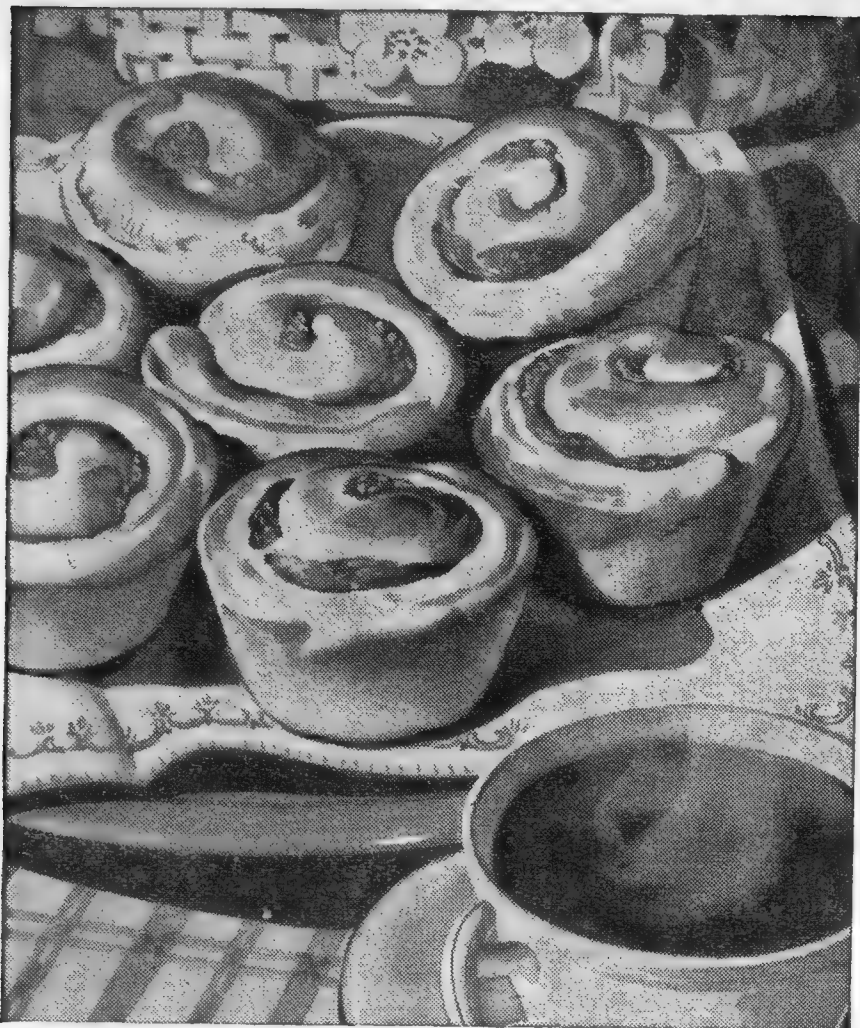
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1/2 cup lukewarm water
1 teaspoon granulated sugar
and stir until sugar is dissolved.
Sprinkle with contents of
1 envelope Fleischmann's
Royal Fast Rising Dry Yeast
Let stand 10 minutes, THEN stir well.
In the meantime, scald
3/4 cup milk
Remove from heat and stir in
1/4 cup granulated sugar
2-1/4 teaspoons salt
4-1/2 tablespoons shortening
Cool to lukewarm and add to yeast mixture; stir in
1/4 cup lukewarm water
Stir in
2-1/4 cups once-sifted bread flour
and beat until smooth; work in
2-1/4 cups more once-sifted bread flour
Turn out on lightly-floured board and knead dough lightly until smooth and elastic. Place in greased bowl, brush top with melted butter or shortening. Cover and set dough in warm place, free from draught. Let rise until doubled in bulk. While dough is rising, prepare

ORANGE FILLING

Combine in a saucepan
2-1/2 tablespoons corn starch
1/2 cup granulated sugar
Gradually blend in
1/3 cup cold water
1/3 cup orange juice

1-1/2 tablespoons lemon juice
and add
1 tablespoon grated orange
rind

1 teaspoon grated lemon rind

Bring to the boil, stirring constantly; boil gently, stirring constantly, until smoothly thickened; cool.

Punch down dough; form into a smooth ball. Roll into an oblong 1/4-inch thick and 26 inches long; loosen dough from board. Spread with cooled orange filling:

Beginning at a long edge, roll up loosely, like a jelly roll. Cut into 1-inch slices. Place in greased muffin pans. Grease tops. Cover and let rise until doubled in bulk. Bake in moderate oven, 350°, about 25 min. Serve hot, with butter or margarine.



A dress for little daughter

By RUBY GROVER

THE amateur dressmaker can learn a good many tricks by observation that will be found useful in making her small daughter's first gowns.

Although the pattern is of primary importance, the beginner who buys one for every garment she sews soon finds herself with a useless accumulation of patterns, with no value received in many instances. A plain worn-out dress, that was originally a good fit across the shoulders (not too narrow) is ideal for a pattern, and makes it easier for the amateur to learn the finishing details. It should be ripped, and ironed smooth; the armholes should be enlarged for more comfortable fit as the child grows. The skirt may be cut the desired length, with generous hem allowance.

The one basic pattern can be used for dress-up wear as well as for everyday prints and gingham. Observe children's clothing in the stores, and on small fry in the flesh, and you will learn how to make the pinafore style and to add a set-in belt in front, with a sash tying in the back. Illustrations in the mail order catalogues will be found useful.

For dress-up wear a collar is usually more becoming, but for everyday collarless dresses are more comfortable on little fat necks. And be sure to have the neckline large enough. A row of machine-stitching around the neckline will help to keep it from fraying out too much before being finished, if you happen to cut it a bit too large. Bias tape can be used to give a simulated collar-effect, or a single-ly collar may be sewed to the front of the yoke, using piping or lace if desired, to outline the edges. The yoke should be made double for it is at this point the garment shows wear first. If one is short of material the inside yolk can be made of some other plain suitable pieces, or the good part of an old pillow case.

When it comes to the sleeves, consider the ironing. One of my small daughter's prettiest frocks was made by an aunt who cleverly designed the puff sleeves with ribbon drawn through eyelets in a plain hem at the bottom of the sleeve. Ironing was incredibly simple, but the sleeves had all the piquancy of the hard-to-iron kind gathered on a small band. This type of sleeve would never be too tight on Baby's chubby arm.

A sprigged cotton from another aunt had a simple but becoming sleeve gathered full in cap style on the shoulder and cut straight at the bottom, to fit comfortably without gathering to a cuff. I blessed her thoughtfulness in choosing such a sleeve, on ironing day.

Later, when the hem requires letting-out, sew a tiny tuck where the line from the former

bottom of the hem is in evidence. Or, if the dress was originally trimmed with bias tape, a band of this may be stitched (on both edges) around the garment, covering the objectionable mark while strengthening a weak spot.

Give a thought to the inside seams, where the amateur often betrays herself with a disorderly array of ravelings and loose threads. If french seams were not made, it takes very little time to overcast the raw seams. The thread must not be drawn too tight, however. Machine washing is hard on seams, so this is time well-spent.

Sewing for a little girl can be a lot of fun. When Mother buys some cloth for a house-dress she can get a little extra, and make a matching dress for Daughter, giving thought to the size of figure or check. Perhaps she can utilize some of her old dresses that are no longer in style, giving due consideration to whether the color and printed design is suitable and becoming to the one who will wear it. That old green dress might be put to a happier use than being made over for Mary Ann, even though her hair is red. Less than a yard of thirty-six inch material will make an adorable gown for your toddler's best, and you can copy an expensive nylon frock for the price of just an ordinary dress.

In Honolulu, one \$10 check, donated to the "Advertiser's" fund for the needy, bounced.

The Dishpan Philosopher

THIS month the seedsmen never fail to put their price-lists in the mail. While snow drifts high and blizzards blow they find our sales resistance low. We read again and yet again each magic page and then we pen the orders that contrive to bring us closer somehow to the spring. But that old proverb's very true about enchantment and the view.—We feel we'll never have enough of fresh green stuff, so always buy beyond our need some extra packages of seed, forgetting what, in summer's heat, a hoe can do to backs and feet.

One consolation on the farm is garden surplus does no harm. The chickens and the pigs are glad of all left-overs to be had, so what we cannot can or eat is simply changed to eggs and meat.

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Charm of your face lies in your hands

By ANN BARRETT

NOWADAYS, women everywhere are taking more interest and care about their skin and beauty problems, and one can truthfully say, that through the right treatment-aids the result is, more "younger looking and more attractive women."

Winter demands Care

Now that winter is here, bringing snow flurries and wind, more attention naturally should be given to the skin, otherwise we will be faced with arduous repairs in the Spring.

Leading authorities on Beauty Aids advise us that a daily beauty routine for women helps to keep facial contours firm and smooth. Each morning after bathing the face and neck one should use a cleansing cream and massage with an upward and outward movement. Then remove the cream with cleansing tissues and pat the face and throat with a skin refresher. The oilier the skin, the more plentiful the astringent. Then follow with face powder and a little rouge and lipstick to highlight the face.

Conserve that Dollar

To those who claim they can't afford the time to pretty-up during the busy hours of the day, the answer is, that the little time we take in beautifying can be charged up to recreation. For it will be a real pleasure to see the results from massage and exercise, when we gaze into our mirrors at the happy face smiling back at us.

Massage

Condition of the muscles and the circulation of the blood are of prime importance; and massaging to correct wrinkles and puffiness under the eyes, frown-lines, and any of the other facial disorders, can be helped greatly by manipulation with a good cream treatment.

It is up to each individual to take the interest in her own beauty needs by daily basic methods with cleansing and the use of the right cosmetic preparations. A good motto to follow is, "to uncover the true beauty, rather than cover the faults of the skin."

Competition

Career women, as well as homemakers with all their skills, intellect and talent, have to compete with beauty, and any successful woman realizes that she can be tired physically as well as mentally, even though she spends half her time in the home, or at her desk. Therefore, it is essential that she make some effort for rest and relaxation, and to get the proper kind of exercise to keep body and mind alert, and last, but not least, some good grooming to beautifying her appearance.

We are told that dress and beauty go hand in hand, and to achieve the right result, woman needs to give as much thought to her complexion as to the choice of her clothes. Dress is only one aspect... a sort of final polish when the foundation of good grooming has been carefully laid. Complexion care, hair-dressing and the choice of clothes will help to express woman's personality, and can be a marvellous lesson for smartening-up the appearance.

Woman's Charm

Take the matter of hair-styling, which plays a large part in the specifications for beauty aids, which after all is known as "woman's crowning glory". At the moment, the present mode seems to favor shorter cuts in a natural way, especially adopted by the younger woman. However, if short hair doesn't suit your particular type, do not adopt it. Femininity is the keynote of woman's charm, so it is more advisable to choose your hair-do to express your own individual type.

If a woman's features suit her hair longer and it looks more becoming when curled, it is wiser to arrange it in the style that is most becoming and flattering. Always try to keep the hair neat and don't forget to brush it twenty-times-ten — this will improve the high-lights and texture of each glorious strand.

Good grooming and the ability to make the most of our personal appearance will surely help us to advance on a successful career.

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Country Diary

YOU can't really appreciate spring properly unless you have experienced what goes on before. And even winter landscapes are delightful to the appreciative eye. Red sunsets through dark-branched poplars, blue shadows on sparkling snow, wire fences converted into silver ropes.

Anyway, about this time of year some urge moves us to study the newly arrived garden catalogues with their gorgeous pictures and intriguing poetry, which sometimes goes to our heads. A very pleasant form of daydreaming in a cozy chair beside the roaring heater, and crystal flakes floating lightly down past the windows, a fleeting delight to the eye! You ponder and plan — the notion that gardening is a spring and summer job is entirely mistaken. It begins in February. The perfect garden exists, on paper, in winter. Drought and winds and pests are then forgotten in the green hopes of the months ahead.

In early February snow is still covering over the food-table of Nature's boarders, a table-cloth that conceals the provender below it. Soil and vegetation are closed against beak and bill. Hoarders and hibernators may be assured of survival, but Hiawatha's chickens are reduced to starvation rations. Living is made difficult for all that feed on the ground, and long frost means a long fast. A sprinkling of grain shaken out of loaded truck or wagon, a few kernels spilt in the barn or granary doorway may provide a saving meal; and a few handfuls scattered from the feed-bucket outside the comfortable quarters of the tame chickens would be a feast indeed. The considerate humans (and I believe the world does grow in mercy) set out trays of scraps, crumbs, fatty morsels, and hang up chunks of suet on the trees. There is reward in doing so, as in all voluntary kindnesses, and sweet song and grace of flight will return to the givers in a few short weeks.

Other choice tid-bits are the left-overs from school lunch-boxes, saved for the purpose, I suspect, and distributed by the

youngsters on their homeward way. Bless their bright faces and kind little hearts. In their close-fitting caps and gay woolly snow suits and fuzzy mittens, they look like elves and pixies from the pages of Grimm.

Out of the dark, a frozen earth under its thick, white blanket, the green spears of grass and purple crocus will come, and the prairie will rejoice again in verdure — the eternal promise of winter.

Apple-cheeked children come romping home with chatter and clatter of stamping feet and beg to sample the fresh, sugared doughnuts. Fathers drive in with a load of wood from the bush, or a box of groceries from town. Mothers pop dumplings in the savory stew and another February day is almost over.

□ □ □

To save their skins

"TO Save Their Skins" has become a common expression applied to a narrow margin of safety of human beings. Saving the skin of various foods may also mean a narrow margin which, when practiced regularly, adds up to a considerable amount during the year. Here are some good suggestions offered by the home economist of the Department of Agriculture.

Using the skins of fruits is an old story, always worth emphasizing. So much of the flavour lies in the skin. Applesauce, cooked without peeling the apples, then pressed through a sieve, has a rich colour and special flavour. The bits of red skin left on the cubed apples in a salad, add not only flavour but colour. A new idea, much liked by those who have tried it, uses the finely grated skin of the apples as an extra bit of flavour in apple pie.

Carrots... even old ones... may be well scrubbed, grated without paring and baked in a casserole with very little water and a dab of butter. This way they are delicious.

Beets are cooked with skins on and then peeled thinly and easily after dipping the hot beets in cold water.

The skin which forms on heating milk contains valuable milk solids and, if skimmed off, is wasted. Cover the milk or stir while heating to prevent the formation of skin. Don't have that skin on the cup of cocoa, beat it with the dover egg beater just before pouring.

Cover oysters or corn starch puddings while cooling. Cool quickly and keep the top smooth and soft instead of tough.

Grate the peel of citrus fruits before squeezing the juice. Save it to use for flavouring. The skins left when juice is squeezed for breakfast make good marmalade.

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...In Blustering February

By LOUISE PRICE BELL

THERE are all sorts of ways in which February can be made interesting because there are national holidays and romantic St. Valentine's Day in that short month. It's a good month to entertain that sewing club you've put off having . . . or the church group with which you work . . . or to have just a neighborhood get-together.

A beautiful fancy Valentine's Day Salad is about all you need and the recipe and directions for one are given here. This is a good way to honor a soon-to-be-bride, and give her a colorful, little nosegay from the center of the salad, to boot!

If you prefer a chicken salad, make it in star molds and garnish with flag-red pimientos for any of the February days. Cherry gelatin such as Spanish cream, made with cherry juice and garnished with whole cherries is suitable. Or make the dessert white and let the whole cherries that garnish it make the dramatic color contrast.

mixture. Place straight sided tumbler in middle of deep round mold rinsed in cold water. Fold fruit carefully into cream mixture and fill pan. Chill until firm. Pour warm water into tumbler until it will turn easily and lift out. Unmold salad onto large, round plate and top with pear halves cut in shape of hearts and colored red with food color. Arrange lettuce or endive under edge of salad. Arrange slivered almonds on sides to look like arrows — one pointed at each heart. Have a little old fashioned nosegay surrounded with lace paper. Slip this into small glass and set in "hole" in salad; present nosegay to guest.

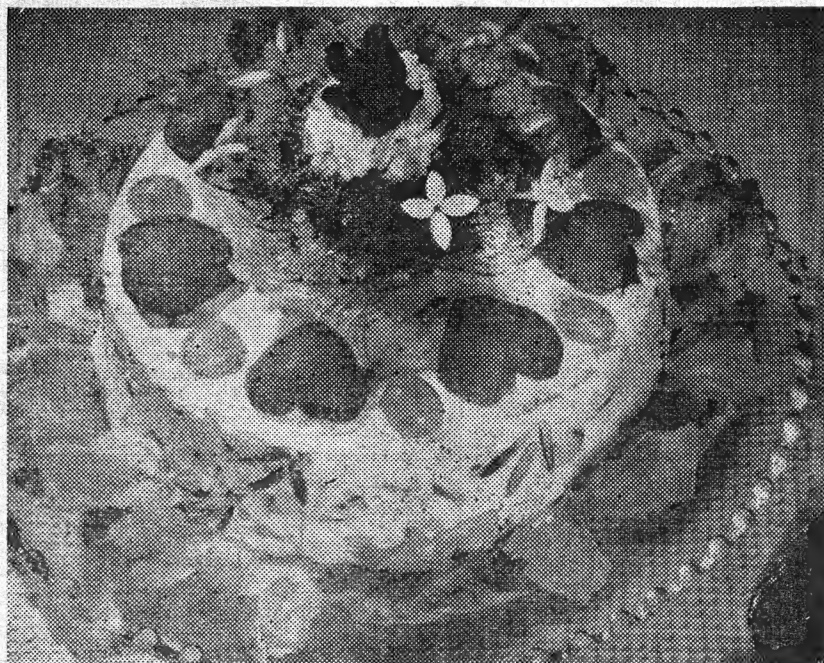
Chicken Salad with Star Molds

- 2 cups diced chicken
- 1 cup sliced celery
- ¼ cup diced green pepper
- ¾ teaspoon salt
- ½ teaspoon pepper
- ½ cup real mayonnaise

Mix chicken, celery, green pepper, seasonings and real mayonnaise together thoroughly. Chill in shallow round mold.

Star Molds

- 1 tablespoon plain gelatin
- ¼ cup cold water
- ¼ cup sugar
- ½ teaspoon salt



A Valentine Salad can be pretty beautiful, as well as delicious. Center it with nosegay for guest of honor.

Pass cherry sauce in addition. Cherry cobbler always delights and pleases the men in particular.

Valentine Party Salad

- 1 cup crushed pineapple (drained)
- 1 cup diced cooked pears
- 1 cup sliced cooked peaches
- 1 cup sliced cooked apricots
- ½ cup maraschino cherries
- 1 cup seeded grapes
- 1 cup finely diced celery
- 2 tablespoons lemon juice
- Slivered browned almonds
- 1 cup real mayonnaise
- 2 cups whipping cream
- 2 tablespoons plain unflavored gelatin
- ¼ cup pineapple juice
- ½ cup hot fruit juices
- ¼ cup sugar or honey
- 6 pear halves colored red
- Lettuce or endive

Nosegay

Drain fruit and combine with celery. Add lemon juice and grated rind. Add real mayonnaise to cream which has been chilled and whipped stiff. Soak gelatin in pineapple juice and dissolve in hot fruit juices. Add sugar and cool over cold water until syrupy. Fold into real mayonnaise

- 1 cup hot water
- 3 tablespoons mild vinegar
- 2 tablespoons diced Pimiento
- 1 tablespoon lemon juice
- Green vegetable coloring
- 1½ cups finely shredded cabbage
- Real mayonnaise
- Pimiento star and strips

Soften gelatin in cold water. Add sugar, salt and hot water. Stir until dissolved. Add vinegar, lemon juice and a drop of coloring. Cool. When mixture begins to thicken, add cabbage and pimiento. Turn into individual star molds rinsed in cold water. Chill. Turn round mold of chicken salad into center of chop plate. Top with real mayonnaise and garnish with Pimiento star and strips. Surround with star mold.

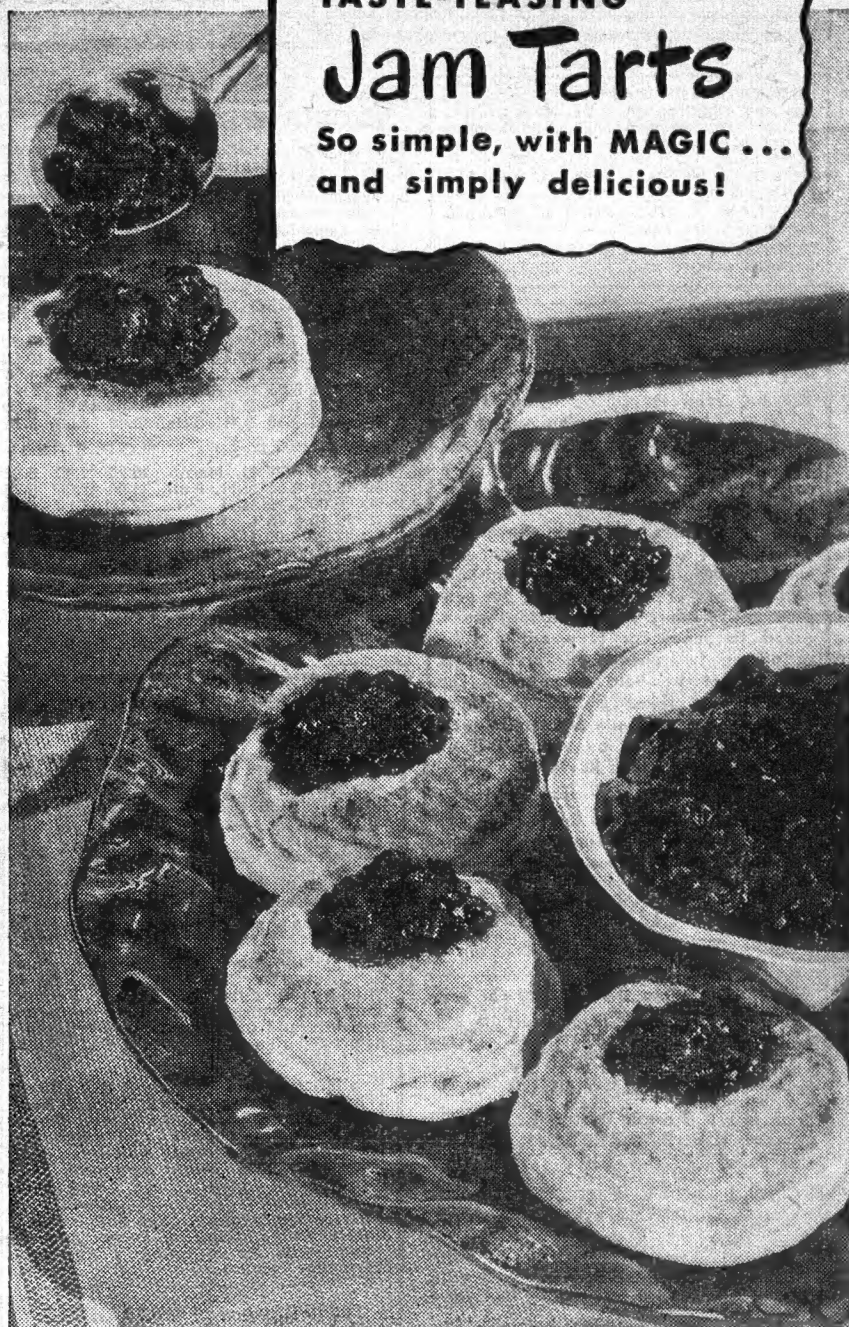
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JAM TARTS

- 2 cups sifted all-purpose flour
- 3 tsp. Magic Baking Powder

- 1 tsp. salt
- 4 tbs. shortening
- 1 egg
- ½ cup milk

- 1 tbs. light corn syrup
- Raspberry Jam
- Cinnamon sugar

Sift together flour, baking powder, salt. Cut in shortening with 2 knives or pastry blender. Beat egg; add milk and corn syrup; add to flour mixture, stirring only enough to make dough hold together. Knead on lightly floured board ½ minute. Roll out ½" thick; cut with biscuit

cutter. Place on greased baking sheet; make deep impression in centre of each with thumb, pressing firmly. Drop raspberry jam in each hollowed out centre. Brush biscuit dough with milk; sprinkle with cinnamon sugar. Bake in 425° oven, 12-15 minutes. Serve immediately.

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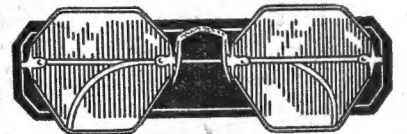
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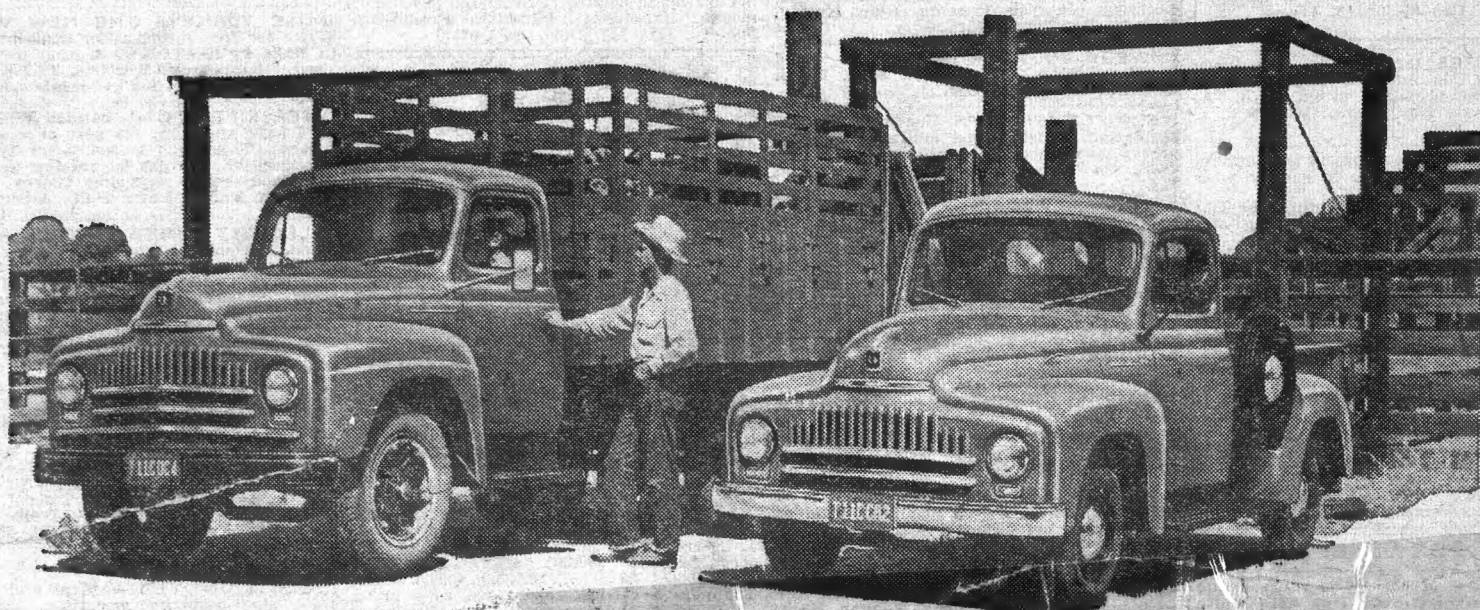
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in smartly styled comfort**

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